Content from the zip file `None`:

## File: ListViewExample/.adf/META-INF/adf-config.xml

<?xml version="1.0" encoding="UTF-8" ?>
<adf-config xmlns="http://xmlns.oracle.com/adf/config" xmlns:config="http://xmlns.oracle.com/bc4j/configuration"
            xmlns:adf="http://xmlns.oracle.com/adf/config/properties"
            xmlns:sec="http://xmlns.oracle.com/adf/security/config">
  <adf-adfm-config xmlns="http://xmlns.oracle.com/adfm/config">
    <defaults changeEventPolicy="ppr" useBindVarsForViewCriteriaLiterals="true" useBindValuesInFindByKey="true"
              mapNegativeScaleToIntegerTypes="true" executeEmptyOnException="true"/>
    <startup>
      <amconfig-overrides>
        <config:Database jbo.locking.mode="optimistic"/>
      </amconfig-overrides>
    </startup>
  </adf-adfm-config>
  <adf:adf-properties-child xmlns="http://xmlns.oracle.com/adf/config/properties">
    <adf-property name="adfAppUID" value="ListViewExample-9673"/>
  </adf:adf-properties-child>
  <sec:adf-security-child xmlns="http://xmlns.oracle.com/adf/security/config">
    <CredentialStoreContext credentialStoreClass="oracle.adf.share.security.providers.jps.CSFCredentialStore"
                            credentialStoreLocation="../../src/META-INF/jps-config.xml"/>
  </sec:adf-security-child>
</adf-config>

## File: ListViewExample/.adf/META-INF/connections.xml

<References xmlns="http://xmlns.oracle.com/adf/jndi">
  <Reference name="database" className="oracle.jdeveloper.db.adapter.DatabaseProvider" credentialStoreKey="database"
             xmlns="">
    <Factory className="oracle.jdevimpl.db.adapter.DatabaseProviderFactory1212"/>
    <RefAddresses>
      <StringRefAddr addrType="sid">
        <Contents>XE</Contents>
      </StringRefAddr>
      <StringRefAddr addrType="subtype">
        <Contents>oraJDBC</Contents>
      </StringRefAddr>
      <StringRefAddr addrType="user">
        <Contents>hr</Contents>
      </StringRefAddr>
      <StringRefAddr addrType="hostname">
        <Contents>192.168.23.128</Contents>
      </StringRefAddr>
      <StringRefAddr addrType="port">
        <Contents>1521</Contents>
      </StringRefAddr>
      <SecureRefAddr addrType="password"/>
      <StringRefAddr addrType="oraDriverType">
        <Contents>thin</Contents>
      </StringRefAddr>
    </RefAddresses>
  </Reference>
</References>

## File: ListViewExample/.adf/META-INF/wsm-assembly.xml

<?xml version="1.0"?>
<orawsp:wsm-assembly xmlns:orawsp="http://schemas.oracle.com/ws/2006/01/policy">
</orawsp:wsm-assembly>

## File: ListViewExample/ListViewExample.jws

<?xml version = '1.0' encoding = 'UTF-8'?>
<jws:workspace xmlns:jws="http://xmlns.oracle.com/ide/project">
   <hash n="adrs-workspace-properties">
      <value n="adrs-instance-binding" v="DefaultServer"/>
   </hash>
   <value n="appTemplateId" v="adfWebappApplicationTemplate"/>
   <hash n="component-versions">
      <value n="oracle.adf.share.dt.migration.jps.JaznCredStoreMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.adf.share.dt.migration.wsm.PolicyAttachmentMigratorHelper" v="12.1.2.0.0"/>
      <value n="oracle.adfdt.controller.adfc.source.migration.SavePointDataSourceForWLSMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdtinternal.model.ide.security.extension.AdfSecurityMigrator" v="11.1.1.1.0.13"/>
      <value n="oracle.ide.model.Project" v="11.1.1.1.0;12.1.3.0.0"/>
      <value n="oracle.jbo.dt.jdevx.deployment.JbdProjectMigrator" v="11.1.2.0.0"/>
      <value n="oracle.jdevimpl.appresources.ApplicationSrcDirMigrator" v="11.1.2.0.0"/>
      <value n="oracle.jdevimpl.deploy.migrators.JeeDeploymentMigrator" v="12.1.2.0.0"/>
      <value n="oracle.jdevimpl.xml.oc4j.jps.JpsConfigMigratorHelper" v="11.1.1.1.0.1"/>
      <value n="oracle.jdevimpl.xml.wl.WeblogicMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.mds.internal.dt.deploy.base.MarMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.mds.internal.dt.ide.migrator.MDSConfigMigratorHelper" v="11.1.1.0.5313"/>
   </hash>
   <list n="contentSets">
      <string v="oracle.mds.internal.dt.ide.appresources.MDSAppResourceCSProvider/MDSAppContentSet"/>
      <string v="oracle.jdeveloper.model.PathsConfiguration/ApplicationSrcContentSet"/>
      <string v="oracle.jdeveloper.model.PathsConfiguration/ADFContentSet"/>
      <string v="oracle.jdeveloper.model.PathsConfiguration/ApplicationBuildToolContentSet"/>
      <string v="oracle.jdeveloper.model.PathsConfiguration/ResourceBundlesContentSet"/>
   </list>
   <list n="listOfChildren">
      <hash><url n="URL" path="Model/Model.jpr"/></hash>
      <hash><url n="URL" path="ViewController/ViewController.jpr"/></hash>
   </list>
   <hash n="oracle.jdeveloper.deploy.dt.DeploymentProfiles">
      <hash n="profileDefinitions">
         <hash n="ListViewExample_Project1_ListViewExample">
            <hash n="archiveOptions">
               <value n="hasManifest" v="false"/>
            </hash>
            <hash n="dependencies">
               <list n="dependencyList">
                  <hash>
                     <value n="adapterClass" v="oracle.jdevimpl.deploy.common.ArchiveProfileDependable"/>
                     <url n="ownerURL" path="ViewController/ViewController.jpr"/>
                     <value n="profileName" v="ListViewExample_ViewController_webapp"/>
                  </hash>
               </list>
            </hash>
            <url n="earURL" path="deploy/ListViewExample_Project1_ListViewExample.ear"/>
            <value n="enterpriseAppName" v="ListViewExample_Project1_ListViewExample"/>
            <hash n="fileGroups">
               <list n="groups">
                  <hash>
                     <list n="contributors">
                        <hash>
                           <value n="type" v="9"/>
                        </hash>
                     </list>
                     <value n="displayName" v="Application Descriptors"/>
                     <hash n="filters">
                        <list n="rules">
                           <hash>
                              <value n="pattern" v="**"/>
                              <value n="type" v="0"/>
                           </hash>
                        </list>
                     </hash>
                     <value n="internalName" v="ear-metainf"/>
                     <value n="type" v="1"/>
                  </hash>
                  <hash>
                     <value n="displayName" v="Application Libraries"/>
                     <hash n="filters">
                        <list n="rules">
                           <hash>
                              <value n="pattern" v="**"/>
                              <value n="type" v="0"/>
                           </hash>
                        </list>
                     </hash>
                     <value n="internalName" v="libraries"/>
                     <value n="targetWithinJar" v="lib"/>
                     <value n="type" v="3"/>
                  </hash>
               </list>
            </hash>
            <value n="profileClass" v="oracle.jdeveloper.deploy.ear.EarProfile"/>
            <value n="profileName" v="ListViewExample_Project1_ListViewExample"/>
         </hash>
      </hash>
      <list n="profileList">
         <string v="ListViewExample_Project1_ListViewExample"/>
      </list>
   </hash>
</jws:workspace>

## File: ListViewExample/Model/classes/META-INF/adfm.xml

<?xml version = '1.0' encoding = 'UTF-8'?>
<MetadataDirectory xmlns="http://xmlns.oracle.com/adfm/metainf" version="11.1.1.0.0">
   <BusinessComponentServiceRegistry path="model/services/common/bc4j.xcfg"/>
   <BusinessComponentProjectRegistry path="model/Model.jpx"/>
</MetadataDirectory>

## File: ListViewExample/Model/classes/model/entities/associations/CountrRegFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="CountrRegFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Regions"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Regions">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Regions"/>
      <Attr Name="_foreignKey" Value="model.entities.Regions.RegIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Regions.RegionId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Countries"
    Cardinality="-1"
    Owner="model.entities.Countries">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_foreignKey" Value="model.entities.Countries.CountrRegFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.RegionId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/DeptLocFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptLocFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Locations"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Locations">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_foreignKey" Value="model.entities.Locations.LocIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.LocationId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptLocFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.LocationId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/DeptMgrFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptMgrFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpEmpIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptMgrFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.ManagerId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/EmpDeptFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpDeptFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Departments1"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments1"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Employees1"
    Cardinality="-1"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees1"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpDeptFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/EmpJobFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpJobFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Jobs">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_foreignKey" Value="model.entities.Jobs.JobIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Jobs.JobId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpJobFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.JobId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/EmpManagerFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpManagerFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="ManagerIdEmployees"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="ManagerIdEmployees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpEmpIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpManagerFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.ManagerId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/JhistDeptFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistDeptFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Departments"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.entities.JobHistory">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_foreignKey" Value="model.entities.JobHistory.JhistDeptFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/JhistEmpFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistEmpFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpEmpIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.entities.JobHistory">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_foreignKey" Value="model.entities.JobHistory.JhistEmpFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/JhistJobFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistJobFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Jobs">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_foreignKey" Value="model.entities.Jobs.JobIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Jobs.JobId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.entities.JobHistory">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_foreignKey" Value="model.entities.JobHistory.JhistJobFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.JobId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/associations/LocCIdFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="LocCIdFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Countries"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Countries">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_foreignKey" Value="model.entities.Countries.CountryCIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.CountryId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Locations"
    Cardinality="-1"
    Owner="model.entities.Locations">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_foreignKey" Value="model.entities.Locations.LocCIdFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.CountryId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/classes/model/entities/Countries.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Countries"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="COUNTRIES"
  AliasName="Countries"
  BindingStyle="OracleName">
  <Attribute
    Name="CountryId"
    IsNotNull="true"
    Precision="2"
    ColumnName="COUNTRY_ID"
    SQLType="CHAR"
    Type="java.lang.String"
    ColumnType="CHAR"
    TableName="COUNTRIES"
    PrimaryKey="true"
    RetrievedOnUpdate="true"
    RetrievedOnInsert="true">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="2"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="CountryName"
    Precision="40"
    ColumnName="COUNTRY_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="COUNTRIES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="40"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="RegionId"
    ColumnName="REGION_ID"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="COUNTRIES"/>
  <AccessorAttribute
    Name="Locations"
    Association="model.entities.associations.LocCIdFkAssoc"
    AssociationEnd="model.entities.associations.LocCIdFkAssoc.Locations"
    AssociationOtherEnd="model.entities.associations.LocCIdFkAssoc.Countries"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Regions"
    Association="model.entities.associations.CountrRegFkAssoc"
    AssociationEnd="model.entities.associations.CountrRegFkAssoc.Regions"
    AssociationOtherEnd="model.entities.associations.CountrRegFkAssoc.Countries"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="CountryCIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="COUNTRY_C_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.CountryId"/>
    </AttrArray>
  </Key>
  <Key
    Name="CountryIdNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="COUNTRY_ID_NN"/>
      <Attr Name="_checkCondition" Value='"COUNTRY_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="CountrRegFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="REG_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="COUNTR_REG_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.RegionId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/classes/model/entities/Departments.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Departments"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="DEPARTMENTS"
  AliasName="Departments"
  BindingStyle="OracleName">
  <Attribute
    Name="DepartmentId"
    IsNotNull="true"
    Precision="4"
    Scale="0"
    ColumnName="DEPARTMENT_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="DEPARTMENTS"
    PrimaryKey="true"/>
  <Attribute
    Name="DepartmentName"
    IsNotNull="true"
    Precision="30"
    ColumnName="DEPARTMENT_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="DEPARTMENTS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="30"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="ManagerId"
    Precision="6"
    Scale="0"
    ColumnName="MANAGER_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="DEPARTMENTS"/>
  <Attribute
    Name="LocationId"
    Precision="4"
    Scale="0"
    ColumnName="LOCATION_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="DEPARTMENTS"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.DeptMgrFkAssoc"
    AssociationEnd="model.entities.associations.DeptMgrFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.DeptMgrFkAssoc.Departments"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Employees1"
    Association="model.entities.associations.EmpDeptFkAssoc"
    AssociationEnd="model.entities.associations.EmpDeptFkAssoc.Employees1"
    AssociationOtherEnd="model.entities.associations.EmpDeptFkAssoc.Departments1"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="JobHistory"
    Association="model.entities.associations.JhistDeptFkAssoc"
    AssociationEnd="model.entities.associations.JhistDeptFkAssoc.JobHistory"
    AssociationOtherEnd="model.entities.associations.JhistDeptFkAssoc.Departments"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Locations"
    Association="model.entities.associations.DeptLocFkAssoc"
    AssociationEnd="model.entities.associations.DeptLocFkAssoc.Locations"
    AssociationOtherEnd="model.entities.associations.DeptLocFkAssoc.Departments"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="DeptIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="DEPT_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.DepartmentId"/>
    </AttrArray>
  </Key>
  <Key
    Name="DeptNameNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="DEPT_NAME_NN"/>
      <Attr Name="_checkCondition" Value='"DEPARTMENT_NAME" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="DeptLocFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="LOC_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="DEPT_LOC_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.LocationId"/>
    </AttrArray>
  </Key>
  <Key
    Name="DeptMgrFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="EMP_EMP_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="DEPT_MGR_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.ManagerId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/classes/model/entities/Employees.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Employees"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="EMPLOYEES"
  AliasName="Employees"
  BindingStyle="OracleName">
  <Attribute
    Name="EmployeeId"
    IsNotNull="true"
    Precision="6"
    Scale="0"
    ColumnName="EMPLOYEE_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"
    PrimaryKey="true"/>
  <Attribute
    Name="FirstName"
    Precision="20"
    ColumnName="FIRST_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="20"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="LastName"
    IsNotNull="true"
    Precision="25"
    ColumnName="LAST_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="Email"
    IsUnique="true"
    IsNotNull="true"
    Precision="25"
    ColumnName="EMAIL"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="PhoneNumber"
    Precision="20"
    ColumnName="PHONE_NUMBER"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="20"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="HireDate"
    IsNotNull="true"
    ColumnName="HIRE_DATE"
    SQLType="DATE"
    Type="java.sql.Timestamp"
    ColumnType="DATE"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="JobId"
    IsNotNull="true"
    Precision="10"
    ColumnName="JOB_ID"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="10"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="Salary"
    Precision="8"
    Scale="2"
    ColumnName="SALARY"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="CommissionPct"
    Precision="2"
    Scale="2"
    ColumnName="COMMISSION_PCT"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="ManagerId"
    Precision="6"
    Scale="0"
    ColumnName="MANAGER_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="DepartmentId"
    Precision="4"
    Scale="0"
    ColumnName="DEPARTMENT_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <AccessorAttribute
    Name="Departments"
    Association="model.entities.associations.DeptMgrFkAssoc"
    AssociationEnd="model.entities.associations.DeptMgrFkAssoc.Departments"
    AssociationOtherEnd="model.entities.associations.DeptMgrFkAssoc.Employees"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.EmpManagerFkAssoc"
    AssociationEnd="model.entities.associations.EmpManagerFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.EmpManagerFkAssoc.ManagerIdEmployees"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="ManagerIdEmployees"
    Association="model.entities.associations.EmpManagerFkAssoc"
    AssociationEnd="model.entities.associations.EmpManagerFkAssoc.ManagerIdEmployees"
    AssociationOtherEnd="model.entities.associations.EmpManagerFkAssoc.Employees"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Departments1"
    Association="model.entities.associations.EmpDeptFkAssoc"
    AssociationEnd="model.entities.associations.EmpDeptFkAssoc.Departments1"
    AssociationOtherEnd="model.entities.associations.EmpDeptFkAssoc.Employees1"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Jobs"
    Association="model.entities.associations.EmpJobFkAssoc"
    AssociationEnd="model.entities.associations.EmpJobFkAssoc.Jobs"
    AssociationOtherEnd="model.entities.associations.EmpJobFkAssoc.Employees"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="JobHistory"
    Association="model.entities.associations.JhistEmpFkAssoc"
    AssociationEnd="model.entities.associations.JhistEmpFkAssoc.JobHistory"
    AssociationOtherEnd="model.entities.associations.JhistEmpFkAssoc.Employees"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <Key
    Name="EmpEmailNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_EMAIL_NN"/>
      <Attr Name="_checkCondition" Value='"EMAIL" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpEmailUk">
    <DesignTime>
      <Attr Name="_isUnique" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_EMAIL_UK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.Email"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpEmpIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_EMP_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpHireDateNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_HIRE_DATE_NN"/>
      <Attr Name="_checkCondition" Value='"HIRE_DATE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpJobNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_JOB_NN"/>
      <Attr Name="_checkCondition" Value='"JOB_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpLastNameNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_LAST_NAME_NN"/>
      <Attr Name="_checkCondition" Value='"LAST_NAME" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpSalaryMin">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_SALARY_MIN"/>
      <Attr Name="_checkCondition" Value="salary > 0"/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpDeptFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="DEPT_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_DEPT_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.DepartmentId"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpJobFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="JOB_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_JOB_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.JobId"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpManagerFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="EMP_EMP_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_MANAGER_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.ManagerId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/classes/model/entities/JobHistory.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JobHistory"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="JOB_HISTORY"
  AliasName="JobHistory"
  BindingStyle="OracleName">
  <Attribute
    Name="EmployeeId"
    IsNotNull="true"
    Precision="6"
    Scale="0"
    ColumnName="EMPLOYEE_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOB_HISTORY"
    PrimaryKey="true"/>
  <Attribute
    Name="StartDate"
    IsNotNull="true"
    ColumnName="START_DATE"
    SQLType="DATE"
    Type="java.sql.Timestamp"
    ColumnType="DATE"
    TableName="JOB_HISTORY"
    PrimaryKey="true"/>
  <Attribute
    Name="EndDate"
    IsNotNull="true"
    ColumnName="END_DATE"
    SQLType="DATE"
    Type="java.sql.Timestamp"
    ColumnType="DATE"
    TableName="JOB_HISTORY"/>
  <Attribute
    Name="JobId"
    IsNotNull="true"
    Precision="10"
    ColumnName="JOB_ID"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="JOB_HISTORY">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="10"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="DepartmentId"
    Precision="4"
    Scale="0"
    ColumnName="DEPARTMENT_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOB_HISTORY"/>
  <AccessorAttribute
    Name="Departments"
    Association="model.entities.associations.JhistDeptFkAssoc"
    AssociationEnd="model.entities.associations.JhistDeptFkAssoc.Departments"
    AssociationOtherEnd="model.entities.associations.JhistDeptFkAssoc.JobHistory"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.JhistEmpFkAssoc"
    AssociationEnd="model.entities.associations.JhistEmpFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.JhistEmpFkAssoc.JobHistory"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Jobs"
    Association="model.entities.associations.JhistJobFkAssoc"
    AssociationEnd="model.entities.associations.JhistJobFkAssoc.Jobs"
    AssociationOtherEnd="model.entities.associations.JhistJobFkAssoc.JobHistory"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="JhistDateInterval">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_DATE_INTERVAL"/>
      <Attr Name="_checkCondition" Value="end_date > start_date"/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistEmpIdStDatePk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_EMP_ID_ST_DATE_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.EmployeeId"/>
      <Item Value="model.entities.JobHistory.StartDate"/>
    </AttrArray>
  </Key>
  <Key
    Name="JhistEmployeeNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_EMPLOYEE_NN"/>
      <Attr Name="_checkCondition" Value='"EMPLOYEE_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistEndDateNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_END_DATE_NN"/>
      <Attr Name="_checkCondition" Value='"END_DATE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistJobNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_JOB_NN"/>
      <Attr Name="_checkCondition" Value='"JOB_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistStartDateNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_START_DATE_NN"/>
      <Attr Name="_checkCondition" Value='"START_DATE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistDeptFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="DEPT_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="JHIST_DEPT_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.DepartmentId"/>
    </AttrArray>
  </Key>
  <Key
    Name="JhistEmpFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="EMP_EMP_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="JHIST_EMP_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.EmployeeId"/>
    </AttrArray>
  </Key>
  <Key
    Name="JhistJobFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="JOB_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="JHIST_JOB_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.JobId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/classes/model/entities/Jobs.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Jobs"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="JOBS"
  AliasName="Jobs"
  BindingStyle="OracleName">
  <Attribute
    Name="JobId"
    IsNotNull="true"
    Precision="10"
    ColumnName="JOB_ID"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="JOBS"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="10"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="JobTitle"
    IsNotNull="true"
    Precision="35"
    ColumnName="JOB_TITLE"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="JOBS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="35"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="MinSalary"
    Precision="6"
    Scale="0"
    ColumnName="MIN_SALARY"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOBS"/>
  <Attribute
    Name="MaxSalary"
    Precision="6"
    Scale="0"
    ColumnName="MAX_SALARY"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOBS"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.EmpJobFkAssoc"
    AssociationEnd="model.entities.associations.EmpJobFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.EmpJobFkAssoc.Jobs"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="JobHistory"
    Association="model.entities.associations.JhistJobFkAssoc"
    AssociationEnd="model.entities.associations.JhistJobFkAssoc.JobHistory"
    AssociationOtherEnd="model.entities.associations.JhistJobFkAssoc.Jobs"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <Key
    Name="JobIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JOB_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Jobs.JobId"/>
    </AttrArray>
  </Key>
  <Key
    Name="JobTitleNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JOB_TITLE_NN"/>
      <Attr Name="_checkCondition" Value='"JOB_TITLE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
</Entity>

## File: ListViewExample/Model/classes/model/entities/Locations.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Locations"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="LOCATIONS"
  AliasName="Locations"
  BindingStyle="OracleName">
  <Attribute
    Name="LocationId"
    IsNotNull="true"
    Precision="4"
    Scale="0"
    ColumnName="LOCATION_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="LOCATIONS"
    PrimaryKey="true"/>
  <Attribute
    Name="StreetAddress"
    Precision="40"
    ColumnName="STREET_ADDRESS"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="40"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="PostalCode"
    Precision="12"
    ColumnName="POSTAL_CODE"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="12"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="City"
    IsNotNull="true"
    Precision="30"
    ColumnName="CITY"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="30"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="StateProvince"
    Precision="25"
    ColumnName="STATE_PROVINCE"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="CountryId"
    Precision="2"
    ColumnName="COUNTRY_ID"
    SQLType="CHAR"
    Type="java.lang.String"
    ColumnType="CHAR"
    TableName="LOCATIONS"
    RetrievedOnUpdate="true"
    RetrievedOnInsert="true">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="2"/>
    </DesignTime>
  </Attribute>
  <AccessorAttribute
    Name="Departments"
    Association="model.entities.associations.DeptLocFkAssoc"
    AssociationEnd="model.entities.associations.DeptLocFkAssoc.Departments"
    AssociationOtherEnd="model.entities.associations.DeptLocFkAssoc.Locations"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Countries"
    Association="model.entities.associations.LocCIdFkAssoc"
    AssociationEnd="model.entities.associations.LocCIdFkAssoc.Countries"
    AssociationOtherEnd="model.entities.associations.LocCIdFkAssoc.Locations"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="LocCityNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="LOC_CITY_NN"/>
      <Attr Name="_checkCondition" Value='"CITY" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="LocIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="LOC_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.LocationId"/>
    </AttrArray>
  </Key>
  <Key
    Name="LocCIdFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="COUNTRY_C_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="LOC_C_ID_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.CountryId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/classes/model/entities/Regions.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Regions"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="REGIONS"
  AliasName="Regions"
  BindingStyle="OracleName">
  <Attribute
    Name="RegionId"
    IsNotNull="true"
    ColumnName="REGION_ID"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="REGIONS"
    PrimaryKey="true"/>
  <Attribute
    Name="RegionName"
    Precision="25"
    ColumnName="REGION_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="REGIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <AccessorAttribute
    Name="Countries"
    Association="model.entities.associations.CountrRegFkAssoc"
    AssociationEnd="model.entities.associations.CountrRegFkAssoc.Countries"
    AssociationOtherEnd="model.entities.associations.CountrRegFkAssoc.Regions"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <Key
    Name="RegIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="REG_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Regions.RegionId"/>
    </AttrArray>
  </Key>
  <Key
    Name="RegionIdNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="REGION_ID_NN"/>
      <Attr Name="_checkCondition" Value='"REGION_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
</Entity>

## File: ListViewExample/Model/classes/model/Model.jpx

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE JboProject SYSTEM "jbo_03_01.dtd">
<!---->
<JboProject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Model"
  Version="12.1.3.10.8"
  SeparateXMLFiles="true"
  PackageName="model">
  <DesignTime>
    <Attr Name="_jprName" Value="../../Model.jpr"/>
    <Attr Name="_jbo.TypeMapEntries" Value="OracleApps"/>
    <Attr Name="_NamedConnection" Value="database"/>
    <Attr Name="_appModuleNames0" Value="model.services.AppModuleAppModule"/>
  </DesignTime>
  <Containee
    Name="associations"
    PackageName="model.entities.associations"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_AS" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="entities"
    PackageName="model.entities"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_EO" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="services"
    PackageName="model.services"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_AM" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="link"
    PackageName="model.views.link"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_VL" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="views"
    PackageName="model.views"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_VO" Value="true"/>
    </DesignTime>
  </Containee>
</JboProject>

## File: ListViewExample/Model/classes/model/services/AppModuleAppModule.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE AppModule SYSTEM "jbo_03_01.dtd">
<!---->
<AppModule
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="AppModuleAppModule"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  ClearCacheOnRollback="true">
  <ViewUsage
    Name="Countries1"
    ViewObjectName="model.views.CountriesView"/>
  <ViewUsage
    Name="Departments1"
    ViewObjectName="model.views.DepartmentsView"/>
  <ViewUsage
    Name="Employees1"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="JobHistory1"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="Jobs1"
    ViewObjectName="model.views.JobsView"/>
  <ViewUsage
    Name="Locations1"
    ViewObjectName="model.views.LocationsView"/>
  <ViewUsage
    Name="Regions1"
    ViewObjectName="model.views.RegionsView"/>
  <ViewUsage
    Name="Departments2"
    ViewObjectName="model.views.DepartmentsView"/>
  <ViewUsage
    Name="Employees2"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="Employees3"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="Employees4"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="JobHistory2"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="JobHistory3"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="JobHistory4"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="Departments3"
    ViewObjectName="model.views.DepartmentsView"/>
  <ViewUsage
    Name="Locations2"
    ViewObjectName="model.views.LocationsView"/>
  <ViewUsage
    Name="Countries2"
    ViewObjectName="model.views.CountriesView"/>
  <ViewLinkUsage
    Name="DeptMgrFkLink1"
    ViewLinkObjectName="model.views.link.DeptMgrFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Employees1"
    DstViewUsageName="model.services.AppModuleAppModule.Departments2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="EmpManagerFkLink1"
    ViewLinkObjectName="model.views.link.EmpManagerFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Employees1"
    DstViewUsageName="model.services.AppModuleAppModule.Employees2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="EmpDeptFkLink1"
    ViewLinkObjectName="model.views.link.EmpDeptFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Departments1"
    DstViewUsageName="model.services.AppModuleAppModule.Employees3"
    Reversed="false"/>
  <ViewLinkUsage
    Name="EmpJobFkLink1"
    ViewLinkObjectName="model.views.link.EmpJobFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Jobs1"
    DstViewUsageName="model.services.AppModuleAppModule.Employees4"
    Reversed="false"/>
  <ViewLinkUsage
    Name="JhistDeptFkLink1"
    ViewLinkObjectName="model.views.link.JhistDeptFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Departments1"
    DstViewUsageName="model.services.AppModuleAppModule.JobHistory2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="JhistEmpFkLink1"
    ViewLinkObjectName="model.views.link.JhistEmpFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Employees1"
    DstViewUsageName="model.services.AppModuleAppModule.JobHistory3"
    Reversed="false"/>
  <ViewLinkUsage
    Name="JhistJobFkLink1"
    ViewLinkObjectName="model.views.link.JhistJobFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Jobs1"
    DstViewUsageName="model.services.AppModuleAppModule.JobHistory4"
    Reversed="false"/>
  <ViewLinkUsage
    Name="DeptLocFkLink1"
    ViewLinkObjectName="model.views.link.DeptLocFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Locations1"
    DstViewUsageName="model.services.AppModuleAppModule.Departments3"
    Reversed="false"/>
  <ViewLinkUsage
    Name="LocCIdFkLink1"
    ViewLinkObjectName="model.views.link.LocCIdFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Countries1"
    DstViewUsageName="model.services.AppModuleAppModule.Locations2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="CountrRegFkLink1"
    ViewLinkObjectName="model.views.link.CountrRegFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Regions1"
    DstViewUsageName="model.services.AppModuleAppModule.Countries2"
    Reversed="false"/>
</AppModule>

## File: ListViewExample/Model/classes/model/services/common/bc4j.xcfg

<?xml version = '1.0' encoding = 'UTF-8'?>
<BC4JConfig version="11.1" xmlns="http://xmlns.oracle.com/bc4j/configuration">
   <AppModuleConfigBag ApplicationName="model.services.AppModuleAppModule">
      <AppModuleConfig name="AppModuleAppModuleLocal" jbo.project="model.Model" ApplicationName="model.services.AppModuleAppModule" DeployPlatform="LOCAL">
         <Database jbo.TypeMapEntries="OracleApps"/>
         <Security AppModuleJndiName="model.services.AppModuleAppModule"/>
         <Custom ns0:JDBCDataSource="java:comp/env/jdbc/databaseDS" xmlns:ns0="http://xmlns.oracle.com/bc4j/configuration"/>
      </AppModuleConfig>
      <AppModuleConfig name="AppModuleAppModuleShared" jbo.project="model.Model" ApplicationName="model.services.AppModuleAppModule" DeployPlatform="LOCAL">
         <AM-Pooling jbo.ampool.maxpoolsize="1" jbo.ampool.isuseexclusive="false"/>
         <Database jbo.TypeMapEntries="OracleApps"/>
         <Security AppModuleJndiName="model.services.AppModuleAppModule"/>
         <Custom ns0:JDBCDataSource="java:comp/env/jdbc/databaseDS" xmlns:ns0="http://xmlns.oracle.com/bc4j/configuration"/>
      </AppModuleConfig>
   </AppModuleConfigBag>
</BC4JConfig>

## File: ListViewExample/Model/classes/model/views/CountriesView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="CountriesView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Countries"
    Entity="model.entities.Countries"/>
  <ViewAttribute
    Name="CountryId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="CountryId"
    EntityUsage="Countries"
    AliasName="COUNTRY_ID"/>
  <ViewAttribute
    Name="CountryName"
    PrecisionRule="true"
    EntityAttrName="CountryName"
    EntityUsage="Countries"
    AliasName="COUNTRY_NAME"/>
  <ViewAttribute
    Name="RegionId"
    PrecisionRule="true"
    EntityAttrName="RegionId"
    EntityUsage="Countries"
    AliasName="REGION_ID"/>
  <ViewLinkAccessor
    Name="Locations"
    ViewLink="model.views.link.LocCIdFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/classes/model/views/DepartmentsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DepartmentsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Departments"
    Entity="model.entities.Departments"/>
  <ViewAttribute
    Name="DepartmentId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="DepartmentId"
    EntityUsage="Departments"
    AliasName="DEPARTMENT_ID"/>
  <ViewAttribute
    Name="DepartmentName"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="DepartmentName"
    EntityUsage="Departments"
    AliasName="DEPARTMENT_NAME"/>
  <ViewAttribute
    Name="ManagerId"
    PrecisionRule="true"
    EntityAttrName="ManagerId"
    EntityUsage="Departments"
    AliasName="MANAGER_ID"/>
  <ViewAttribute
    Name="LocationId"
    PrecisionRule="true"
    EntityAttrName="LocationId"
    EntityUsage="Departments"
    AliasName="LOCATION_ID"/>
  <ViewLinkAccessor
    Name="Employees"
    ViewLink="model.views.link.EmpDeptFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="JobHistory"
    ViewLink="model.views.link.JhistDeptFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/classes/model/views/EmployeesView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmployeesView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Employees"
    Entity="model.entities.Employees"/>
  <ViewAttribute
    Name="EmployeeId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="EmployeeId"
    EntityUsage="Employees"
    AliasName="EMPLOYEE_ID"/>
  <ViewAttribute
    Name="FirstName"
    PrecisionRule="true"
    EntityAttrName="FirstName"
    EntityUsage="Employees"
    AliasName="FIRST_NAME"/>
  <ViewAttribute
    Name="LastName"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="LastName"
    EntityUsage="Employees"
    AliasName="LAST_NAME"/>
  <ViewAttribute
    Name="Email"
    IsUnique="true"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="Email"
    EntityUsage="Employees"
    AliasName="EMAIL"/>
  <ViewAttribute
    Name="PhoneNumber"
    PrecisionRule="true"
    EntityAttrName="PhoneNumber"
    EntityUsage="Employees"
    AliasName="PHONE_NUMBER"/>
  <ViewAttribute
    Name="HireDate"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="HireDate"
    EntityUsage="Employees"
    AliasName="HIRE_DATE"/>
  <ViewAttribute
    Name="JobId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobId"
    EntityUsage="Employees"
    AliasName="JOB_ID"/>
  <ViewAttribute
    Name="Salary"
    PrecisionRule="true"
    EntityAttrName="Salary"
    EntityUsage="Employees"
    AliasName="SALARY"/>
  <ViewAttribute
    Name="CommissionPct"
    PrecisionRule="true"
    EntityAttrName="CommissionPct"
    EntityUsage="Employees"
    AliasName="COMMISSION_PCT"/>
  <ViewAttribute
    Name="ManagerId"
    PrecisionRule="true"
    EntityAttrName="ManagerId"
    EntityUsage="Employees"
    AliasName="MANAGER_ID"/>
  <ViewAttribute
    Name="DepartmentId"
    PrecisionRule="true"
    EntityAttrName="DepartmentId"
    EntityUsage="Employees"
    AliasName="DEPARTMENT_ID"/>
  <ViewLinkAccessor
    Name="Departments"
    ViewLink="model.views.link.DeptMgrFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="Employees1"
    ViewLink="model.views.link.EmpManagerFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="JobHistory"
    ViewLink="model.views.link.JhistEmpFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/classes/model/views/JobHistoryView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JobHistoryView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="JobHistory"
    Entity="model.entities.JobHistory"/>
  <ViewAttribute
    Name="EmployeeId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="EmployeeId"
    EntityUsage="JobHistory"
    AliasName="EMPLOYEE_ID"/>
  <ViewAttribute
    Name="StartDate"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="StartDate"
    EntityUsage="JobHistory"
    AliasName="START_DATE"/>
  <ViewAttribute
    Name="EndDate"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="EndDate"
    EntityUsage="JobHistory"
    AliasName="END_DATE"/>
  <ViewAttribute
    Name="JobId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobId"
    EntityUsage="JobHistory"
    AliasName="JOB_ID"/>
  <ViewAttribute
    Name="DepartmentId"
    PrecisionRule="true"
    EntityAttrName="DepartmentId"
    EntityUsage="JobHistory"
    AliasName="DEPARTMENT_ID"/>
</ViewObject>

## File: ListViewExample/Model/classes/model/views/JobsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JobsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Jobs"
    Entity="model.entities.Jobs"/>
  <ViewAttribute
    Name="JobId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobId"
    EntityUsage="Jobs"
    AliasName="JOB_ID"/>
  <ViewAttribute
    Name="JobTitle"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobTitle"
    EntityUsage="Jobs"
    AliasName="JOB_TITLE"/>
  <ViewAttribute
    Name="MinSalary"
    PrecisionRule="true"
    EntityAttrName="MinSalary"
    EntityUsage="Jobs"
    AliasName="MIN_SALARY"/>
  <ViewAttribute
    Name="MaxSalary"
    PrecisionRule="true"
    EntityAttrName="MaxSalary"
    EntityUsage="Jobs"
    AliasName="MAX_SALARY"/>
  <ViewLinkAccessor
    Name="Employees"
    ViewLink="model.views.link.EmpJobFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="JobHistory"
    ViewLink="model.views.link.JhistJobFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/classes/model/views/link/CountrRegFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="CountrRegFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.CountrRegFkAssoc">
  <ViewLinkDefEnd
    Name="Regions"
    Cardinality="1"
    Source="true"
    Owner="model.views.RegionsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Regions"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.RegionsView.RegionId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Countries"
    Cardinality="-1"
    Owner="model.views.CountriesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.CountriesView.RegionId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/DeptLocFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptLocFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.DeptLocFkAssoc">
  <ViewLinkDefEnd
    Name="Locations"
    Cardinality="1"
    Source="true"
    Owner="model.views.LocationsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.LocationsView.LocationId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.LocationId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/DeptMgrFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptMgrFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.DeptMgrFkAssoc">
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.ManagerId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/EmpDeptFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpDeptFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.EmpDeptFkAssoc">
  <ViewLinkDefEnd
    Name="Departments1_1"
    Cardinality="1"
    Source="true"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments1"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/EmpJobFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpJobFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.EmpJobFkAssoc">
  <ViewLinkDefEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.views.JobsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobsView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/EmpManagerFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpManagerFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.EmpManagerFkAssoc">
  <ViewLinkDefEnd
    Name="ManagerIdEmployees"
    Cardinality="1"
    Source="true"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="ManagerIdEmployees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Employees1"
    Cardinality="-1"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees1"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.ManagerId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/JhistDeptFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistDeptFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.JhistDeptFkAssoc">
  <ViewLinkDefEnd
    Name="Departments"
    Cardinality="1"
    Source="true"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.views.JobHistoryView">
    <DesignTime>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobHistoryView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/JhistEmpFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistEmpFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.JhistEmpFkAssoc">
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.views.JobHistoryView">
    <DesignTime>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobHistoryView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/JhistJobFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistJobFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.JhistJobFkAssoc">
  <ViewLinkDefEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.views.JobsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobsView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.views.JobHistoryView">
    <DesignTime>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobHistoryView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/link/LocCIdFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="LocCIdFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.LocCIdFkAssoc">
  <ViewLinkDefEnd
    Name="Countries"
    Cardinality="1"
    Source="true"
    Owner="model.views.CountriesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.CountriesView.CountryId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Locations"
    Cardinality="-1"
    Owner="model.views.LocationsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.LocationsView.CountryId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/classes/model/views/LocationsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="LocationsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Locations"
    Entity="model.entities.Locations"/>
  <ViewAttribute
    Name="LocationId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="LocationId"
    EntityUsage="Locations"
    AliasName="LOCATION_ID"/>
  <ViewAttribute
    Name="StreetAddress"
    PrecisionRule="true"
    EntityAttrName="StreetAddress"
    EntityUsage="Locations"
    AliasName="STREET_ADDRESS"/>
  <ViewAttribute
    Name="PostalCode"
    PrecisionRule="true"
    EntityAttrName="PostalCode"
    EntityUsage="Locations"
    AliasName="POSTAL_CODE"/>
  <ViewAttribute
    Name="City"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="City"
    EntityUsage="Locations"
    AliasName="CITY"/>
  <ViewAttribute
    Name="StateProvince"
    PrecisionRule="true"
    EntityAttrName="StateProvince"
    EntityUsage="Locations"
    AliasName="STATE_PROVINCE"/>
  <ViewAttribute
    Name="CountryId"
    PrecisionRule="true"
    EntityAttrName="CountryId"
    EntityUsage="Locations"
    AliasName="COUNTRY_ID"/>
  <ViewLinkAccessor
    Name="Departments"
    ViewLink="model.views.link.DeptLocFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/classes/model/views/RegionsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="RegionsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Regions"
    Entity="model.entities.Regions"/>
  <ViewAttribute
    Name="RegionId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="RegionId"
    EntityUsage="Regions"
    AliasName="REGION_ID"/>
  <ViewAttribute
    Name="RegionName"
    PrecisionRule="true"
    EntityAttrName="RegionName"
    EntityUsage="Regions"
    AliasName="REGION_NAME"/>
  <ViewLinkAccessor
    Name="Countries"
    ViewLink="model.views.link.CountrRegFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/Model.jpr

<?xml version = '1.0' encoding = 'UTF-8'?>
<jpr:project xmlns:jpr="http://xmlns.oracle.com/ide/project">
   <hash n="component-versions">
      <value n="oracle.adfdt.controller.adfc.source.migration.AdfControllerSchemaMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdt.controller.common.migrator.ProjectMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdt.controller.jsf2.diagram.migrate.JsfNodeMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.adfdt.controller.migrate.TrinidadDatabindingsProjectMigrator" v="11.1.2.0.0"/>
      <value n="oracle.adfdtinternal.dvt.datapresdt.migration.DVTDataMapMigrator" v="11.1.1.1.0.3"/>
      <value n="oracle.adfdtinternal.dvt.datapresdt.migration.DVTWebAppConfigurationMigrator" v="12.1.3.0.0"/>
      <value n="oracle.adfdtinternal.model.ide.migration.ProjectMigrator" v="11.1.1.1.0.11.1.1"/>
      <value n="oracle.adfdtinternal.model.ide.security.wizard.FormPageMigrator" v="11.1.1.0.0"/>
      <value n="oracle.adfdtinternal.model.ide.security.wizard.JpsFilterMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdtinternal.model.ide.xmled.migration.ADFNodeMigrator" v="11.1.1.1.0.5"/>
      <value n="oracle.adfdtinternal.model.ide.xmled.migration.PageDefinitionParameterValueMigrator" v="11.1.1.1.0.5"/>
      <value n="oracle.adfdtinternal.model.ide.xmled.migration.WebXmlMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdtinternal.view.common.migration.wizards.MigrationHelper" v="11.1.1.1.0.3"/>
      <value n="oracle.adfdtinternal.view.rich.binding.migration.JarResourceMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdtinternal.view.rich.migration.ComponentIdNodeMigratorHelper" v="11.1.1.1.0.01"/>
      <value n="oracle.adfdtinternal.view.rich.migration.FacesLibraryVersionMigrator" v="11.1.1.1.0.1"/>
      <value n="oracle.ide.model.Project" v="12.1.3.0.0"/>
      <value n="oracle.ide.model.ResourcePathsMigrator" v="11.1.1.1.0"/>
      <value n="oracle.ideimpl.model.TechnologyScopeUpdateMigrator" v="11.1.2.0.0.5"/>
      <value n="oracle.jbo.dt.jclient.migrator.JCProjectMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jbo.dt.jdevx.deployment.JbdProjectMigrator" v="11.1.2.0.0"/>
      <value n="oracle.jbo.dt.jdevx.ui.appnav.APAdfConfigMigrator" v="11.1.2.0.0"/>
      <value n="oracle.jbo.dt.jdevx.ui.appnav.APProjectMigrator" v="11.1.1.0.1.5"/>
      <value n="oracle.jbo.dt.migrate.ResourceBundlePathMigrator" v="11.1.1.0.1.5"/>
      <value n="oracle.jbo.dt.migration.ServiceInterfaceMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdeveloper.dbmodeler.Migration" v="12.1.1.0.0"/>
      <value n="oracle.jdeveloper.ejb.EjbMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdeveloper.library.ProjectLibraryMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdeveloper.model.OutputDirectoryMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdevimpl.deploy.jps.JpsDataMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdevimpl.deploy.migrators.DeploymentMigrator" v="12.1.2.0.1"/>
      <value n="oracle.jdevimpl.jsp.JspMigrator" v="11.1.1"/>
      <value n="oracle.jdevimpl.offlinedb.migration.OfflineDBProjectMigrator" v="12.1.1.0.0"/>
      <value n="oracle.jdevimpl.resourcebundle.XliffAddin$XliffMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.jdevimpl.webapp.jsp.libraries.JspLibraryMigrator" v="11.1.1.1.4"/>
      <value n="oracle.jdevimpl.webapp.jsp.taglibraries.trinidad.migration.TrinidadLibraryVersionMigrator" v="11.1.1.1.0.1"/>
      <value n="oracle.jdevimpl.webapp.WebAppContentSetNodeMigratorHelper" v="11.1.1"/>
      <value n="oracle.jdevimpl.webapp.WebAppProjectNodeMigratorHelper" v="12.1.2.0.0"/>
      <value n="oracle.jdevimpl.webservices.rest.migration.RestLibraryMigrator" v="12.1.1.0.0"/>
      <value n="oracle.jdevimpl.webservices.rest.migration.RestPathMigrator" v="11.1.2.0.0"/>
      <value n="oracle.jdevimpl.webservices.WebServicesMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.jdevimpl.xml.wl.WeblogicMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.modeler.bmmigrate.management.Migration" v="11.1.1.1.0"/>
      <value n="oracle.toplink.workbench.addin.migration.PersistenceProjectMigrator" v="11.1.1.1.0"/>
      <value n="oracle.toplink.workbench.addin.migration.TopLinkProjectMigrator" v="11.1.1.1.0"/>
   </hash>
   <list n="contentSets">
      <string v="oracle.jdeveloper.model.J2eeSettings/webContentSet"/>
      <string v="oracle.jdeveloper.model.PathsConfiguration/javaContentSet"/>
      <string v="oracle.ide.model.ResourcePaths/resourcesContentSet"/>
      <string v="oracle.jdeveloper.offlinedb.model.OfflineDBProjectSettings/offlineDBContentSet"/>
      <string v="oracle.mds.internal.dt.ide.MDSLibraryCustCSProvider/mdsContentSet"/>
      <string v="oracle.mds.internal.dt.ide.MDSADFLibVirtualNodeCSProvider/mdsLibVirtualNodeContentSet"/>
      <string v="oracle.adfdtinternal.model.ide.settings.ADFMSettings/adfmContentSet"/>
      <string v="oracle.bm.commonIde.data.project.ModelerProjectSettings/modelersContentSet"/>
      <string v="oracle.toplink.workbench.addin/toplinkContentSet"/>
   </list>
   <value n="defaultPackage" v="model"/>
   <value n="jbo.JpxName" v="model.Model"/>
   <value n="jbo.NoAttrEnumClasses" v="true"/>
   <value n="JboProject" v="true"/>
   <hash n="oracle.ide.model.TechnologyScopeConfiguration">
      <list n="technologyScope">
         <string v="ADFbc"/>
         <string v="Java"/>
         <string v="XML"/>
      </list>
   </hash>
   <value n="oracle.jbo.AMPackage" v="services"/>
   <value n="oracle.jbo.ASPackage" v="entities.associations"/>
   <value n="oracle.jbo.EOPackage" v="entities"/>
   <value n="oracle.jbo.ObjAMSuffix" v="AppModule"/>
   <value n="oracle.jbo.ObjAssocSuffix" v="Assoc"/>
   <value n="oracle.jbo.ObjDomainSuffix" v="Domain"/>
   <value n="oracle.jbo.ObjViewLinkSuffix" v="Link"/>
   <value n="oracle.jbo.ObjVOSuffix" v="View"/>
   <value n="oracle.jbo.SavedPreferences" v="true"/>
   <value n="oracle.jbo.VLPackage" v="views.link"/>
   <value n="oracle.jbo.VOPackage" v="views"/>
   <hash n="oracle.jdeveloper.compiler.OjcConfiguration">
      <list n="copyRes">
         <string v=".cpx"/>
         <string v=".dcx"/>
         <string v=".ejx"/>
         <string v=".gif"/>
         <string v=".ini"/>
         <string v=".jpeg"/>
         <string v=".jpg"/>
         <string v=".png"/>
         <string v=".properties"/>
         <string v=".sva"/>
         <string v=".tag"/>
         <string v=".tld"/>
         <string v=".wsdl"/>
         <string v=".xcfg"/>
         <string v=".xlf"/>
         <string v=".xml"/>
         <string v=".xsd"/>
         <string v=".xsl"/>
         <string v=".jpx"/>
         <string v=".rpx"/>
      </list>
      <value n="internalEncoding" v="UTF-8"/>
      <value n="webIANAEncoding" v="UTF-8"/>
   </hash>
   <hash n="oracle.jdeveloper.deploy.dt.DeploymentProfiles">
      <hash n="profileDefinitions">
         <hash n="ListViewExample_Model">
            <value n="adflib-connectionDetails" v="true"/>
            <value n="adflib-nonReusablesError" v="false"/>
            <hash n="archiveOptions">
               <value n="hasManifest" v="true"/>
            </hash>
            <hash n="fileGroups">
               <list n="groups">
                  <hash>
                     <list n="contributors">
                        <hash>
                           <value n="type" v="2"/>
                        </hash>
                        <hash>
                           <value n="type" v="5"/>
                        </hash>
                     </list>
                     <value n="displayName" v="Project Output"/>
                     <hash n="filters">
                        <list n="rules">
                           <hash>
                              <value n="pattern" v="WEB-INF/classes/**"/>
                              <value n="type" v="1"/>
                           </hash>
                           <hash>
                              <value n="pattern" v="**"/>
                              <value n="type" v="0"/>
                           </hash>
                        </list>
                     </hash>
                     <value n="internalName" v="project-output"/>
                     <value n="type" v="1"/>
                  </hash>
               </list>
            </hash>
            <url n="jarURL" path="deploy/ListViewExample_Model.jar"/>
            <hash n="LibraryDependencies"/>
            <value n="profileClass" v="oracle.adfdt.common.deploy.impl.AdfLibraryProfile"/>
            <value n="profileName" v="ListViewExample_Model"/>
         </hash>
         <hash n="ListViewExample_Model_adflib">
            <value n="adflib-connectionDetails" v="true"/>
            <value n="adflib-nonReusablesError" v="false"/>
            <hash n="archiveOptions">
               <value n="hasManifest" v="true"/>
            </hash>
            <hash n="fileGroups">
               <list n="groups">
                  <hash>
                     <list n="contributors">
                        <hash>
                           <value n="type" v="2"/>
                        </hash>
                        <hash>
                           <value n="type" v="5"/>
                        </hash>
                     </list>
                     <value n="displayName" v="Project Output"/>
                     <hash n="filters">
                        <list n="rules">
                           <hash>
                              <value n="pattern" v="WEB-INF/classes/**"/>
                              <value n="type" v="1"/>
                           </hash>
                           <hash>
                              <value n="pattern" v="**"/>
                              <value n="type" v="0"/>
                           </hash>
                        </list>
                     </hash>
                     <value n="internalName" v="project-output"/>
                     <value n="type" v="1"/>
                  </hash>
               </list>
            </hash>
            <url n="jarURL" path="deploy/ListViewExample_Model_adflib.jar"/>
            <hash n="LibraryDependencies"/>
            <value n="profileClass" v="oracle.adfdt.common.deploy.impl.AdfLibraryProfile"/>
            <value n="profileName" v="ListViewExample_Model_adflib"/>
         </hash>
      </hash>
      <list n="profileList">
         <string v="ListViewExample_Model_adflib"/>
         <string v="ListViewExample_Model"/>
      </list>
   </hash>
   <hash n="oracle.jdeveloper.model.J2eeSettings">
      <value n="j2eeWebAppName" v="ListViewExample-Model-webapp"/>
      <value n="j2eeWebContextRoot" v="ListViewExample-Model-context-root"/>
   </hash>
   <hash n="oracle.jdevimpl.config.JProjectLibraries">
      <list n="exportedReferences">
         <hash>
            <value n="id" v="BC4J Runtime"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="ADF Model Runtime"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="MDS Runtime"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="MDS Runtime Dependencies"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="BC4J Security"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="Oracle JDBC"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="BC4J Oracle Domains"/>
            <value n="isJDK" v="false"/>
         </hash>
      </list>
      <list n="libraryReferences">
         <hash>
            <value n="id" v="BC4J Runtime"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="ADF Model Runtime"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="MDS Runtime"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="MDS Runtime Dependencies"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="BC4J Security"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="Oracle JDBC"/>
            <value n="isJDK" v="false"/>
         </hash>
         <hash>
            <value n="id" v="BC4J Oracle Domains"/>
            <value n="isJDK" v="false"/>
         </hash>
      </list>
   </hash>
   <hash n="oracle.jdevimpl.config.JProjectPaths">
      <url n="outputDirectory" path="classes/"/>
   </hash>
</jpr:project>

## File: ListViewExample/Model/src/model/entities/associations/CountrRegFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="CountrRegFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Regions"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Regions">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Regions"/>
      <Attr Name="_foreignKey" Value="model.entities.Regions.RegIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Regions.RegionId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Countries"
    Cardinality="-1"
    Owner="model.entities.Countries">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_foreignKey" Value="model.entities.Countries.CountrRegFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.RegionId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/DeptLocFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptLocFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Locations"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Locations">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_foreignKey" Value="model.entities.Locations.LocIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.LocationId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptLocFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.LocationId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/DeptMgrFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptMgrFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpEmpIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptMgrFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.ManagerId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/EmpDeptFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpDeptFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Departments1"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments1"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Employees1"
    Cardinality="-1"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees1"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpDeptFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/EmpJobFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpJobFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Jobs">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_foreignKey" Value="model.entities.Jobs.JobIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Jobs.JobId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpJobFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.JobId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/EmpManagerFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpManagerFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="ManagerIdEmployees"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="ManagerIdEmployees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpEmpIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpManagerFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.ManagerId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/JhistDeptFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistDeptFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Departments"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Departments">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_foreignKey" Value="model.entities.Departments.DeptIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.entities.JobHistory">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_foreignKey" Value="model.entities.JobHistory.JhistDeptFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.DepartmentId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/JhistEmpFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistEmpFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Employees">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_foreignKey" Value="model.entities.Employees.EmpEmpIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.entities.JobHistory">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_foreignKey" Value="model.entities.JobHistory.JhistEmpFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.EmployeeId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/JhistJobFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistJobFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Jobs">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_foreignKey" Value="model.entities.Jobs.JobIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Jobs.JobId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.entities.JobHistory">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_foreignKey" Value="model.entities.JobHistory.JhistJobFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.JobId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/associations/LocCIdFkAssoc.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Association SYSTEM "jbo_03_01.dtd">
<!---->
<Association
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="LocCIdFkAssoc"
  Version="12.1.3.10.8"
  InheritPersonalization="merge">
  <DesignTime>
    <Attr Name="_isCodegen" Value="true"/>
  </DesignTime>
  <AssociationEnd
    Name="Countries"
    Cardinality="1"
    Source="true"
    Owner="model.entities.Countries">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_foreignKey" Value="model.entities.Countries.CountryCIdPk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.CountryId"/>
    </AttrArray>
  </AssociationEnd>
  <AssociationEnd
    Name="Locations"
    Cardinality="-1"
    Owner="model.entities.Locations">
    <DesignTime>
      <Attr Name="_aggregation" Value="0"/>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_foreignKey" Value="model.entities.Locations.LocCIdFk"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.CountryId"/>
    </AttrArray>
  </AssociationEnd>
</Association>

## File: ListViewExample/Model/src/model/entities/Countries.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Countries"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="COUNTRIES"
  AliasName="Countries"
  BindingStyle="OracleName">
  <Attribute
    Name="CountryId"
    IsNotNull="true"
    Precision="2"
    ColumnName="COUNTRY_ID"
    SQLType="CHAR"
    Type="java.lang.String"
    ColumnType="CHAR"
    TableName="COUNTRIES"
    PrimaryKey="true"
    RetrievedOnUpdate="true"
    RetrievedOnInsert="true">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="2"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="CountryName"
    Precision="40"
    ColumnName="COUNTRY_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="COUNTRIES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="40"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="RegionId"
    ColumnName="REGION_ID"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="COUNTRIES"/>
  <AccessorAttribute
    Name="Locations"
    Association="model.entities.associations.LocCIdFkAssoc"
    AssociationEnd="model.entities.associations.LocCIdFkAssoc.Locations"
    AssociationOtherEnd="model.entities.associations.LocCIdFkAssoc.Countries"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Regions"
    Association="model.entities.associations.CountrRegFkAssoc"
    AssociationEnd="model.entities.associations.CountrRegFkAssoc.Regions"
    AssociationOtherEnd="model.entities.associations.CountrRegFkAssoc.Countries"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="CountryCIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="COUNTRY_C_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.CountryId"/>
    </AttrArray>
  </Key>
  <Key
    Name="CountryIdNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="COUNTRY_ID_NN"/>
      <Attr Name="_checkCondition" Value='"COUNTRY_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="CountrRegFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="REG_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="COUNTR_REG_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Countries.RegionId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/src/model/entities/Departments.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Departments"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="DEPARTMENTS"
  AliasName="Departments"
  BindingStyle="OracleName">
  <Attribute
    Name="DepartmentId"
    IsNotNull="true"
    Precision="4"
    Scale="0"
    ColumnName="DEPARTMENT_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="DEPARTMENTS"
    PrimaryKey="true"/>
  <Attribute
    Name="DepartmentName"
    IsNotNull="true"
    Precision="30"
    ColumnName="DEPARTMENT_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="DEPARTMENTS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="30"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="ManagerId"
    Precision="6"
    Scale="0"
    ColumnName="MANAGER_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="DEPARTMENTS"/>
  <Attribute
    Name="LocationId"
    Precision="4"
    Scale="0"
    ColumnName="LOCATION_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="DEPARTMENTS"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.DeptMgrFkAssoc"
    AssociationEnd="model.entities.associations.DeptMgrFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.DeptMgrFkAssoc.Departments"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Employees1"
    Association="model.entities.associations.EmpDeptFkAssoc"
    AssociationEnd="model.entities.associations.EmpDeptFkAssoc.Employees1"
    AssociationOtherEnd="model.entities.associations.EmpDeptFkAssoc.Departments1"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="JobHistory"
    Association="model.entities.associations.JhistDeptFkAssoc"
    AssociationEnd="model.entities.associations.JhistDeptFkAssoc.JobHistory"
    AssociationOtherEnd="model.entities.associations.JhistDeptFkAssoc.Departments"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Locations"
    Association="model.entities.associations.DeptLocFkAssoc"
    AssociationEnd="model.entities.associations.DeptLocFkAssoc.Locations"
    AssociationOtherEnd="model.entities.associations.DeptLocFkAssoc.Departments"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="DeptIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="DEPT_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.DepartmentId"/>
    </AttrArray>
  </Key>
  <Key
    Name="DeptNameNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="DEPT_NAME_NN"/>
      <Attr Name="_checkCondition" Value='"DEPARTMENT_NAME" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="DeptLocFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="LOC_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="DEPT_LOC_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.LocationId"/>
    </AttrArray>
  </Key>
  <Key
    Name="DeptMgrFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="EMP_EMP_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="DEPT_MGR_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Departments.ManagerId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/src/model/entities/Employees.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Employees"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="EMPLOYEES"
  AliasName="Employees"
  BindingStyle="OracleName">
  <Attribute
    Name="EmployeeId"
    IsNotNull="true"
    Precision="6"
    Scale="0"
    ColumnName="EMPLOYEE_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"
    PrimaryKey="true"/>
  <Attribute
    Name="FirstName"
    Precision="20"
    ColumnName="FIRST_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="20"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="LastName"
    IsNotNull="true"
    Precision="25"
    ColumnName="LAST_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="Email"
    IsUnique="true"
    IsNotNull="true"
    Precision="25"
    ColumnName="EMAIL"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="PhoneNumber"
    Precision="20"
    ColumnName="PHONE_NUMBER"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="20"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="HireDate"
    IsNotNull="true"
    ColumnName="HIRE_DATE"
    SQLType="DATE"
    Type="java.sql.Timestamp"
    ColumnType="DATE"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="JobId"
    IsNotNull="true"
    Precision="10"
    ColumnName="JOB_ID"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="EMPLOYEES">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="10"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="Salary"
    Precision="8"
    Scale="2"
    ColumnName="SALARY"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="CommissionPct"
    Precision="2"
    Scale="2"
    ColumnName="COMMISSION_PCT"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="ManagerId"
    Precision="6"
    Scale="0"
    ColumnName="MANAGER_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <Attribute
    Name="DepartmentId"
    Precision="4"
    Scale="0"
    ColumnName="DEPARTMENT_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="EMPLOYEES"/>
  <AccessorAttribute
    Name="Departments"
    Association="model.entities.associations.DeptMgrFkAssoc"
    AssociationEnd="model.entities.associations.DeptMgrFkAssoc.Departments"
    AssociationOtherEnd="model.entities.associations.DeptMgrFkAssoc.Employees"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.EmpManagerFkAssoc"
    AssociationEnd="model.entities.associations.EmpManagerFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.EmpManagerFkAssoc.ManagerIdEmployees"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="ManagerIdEmployees"
    Association="model.entities.associations.EmpManagerFkAssoc"
    AssociationEnd="model.entities.associations.EmpManagerFkAssoc.ManagerIdEmployees"
    AssociationOtherEnd="model.entities.associations.EmpManagerFkAssoc.Employees"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Departments1"
    Association="model.entities.associations.EmpDeptFkAssoc"
    AssociationEnd="model.entities.associations.EmpDeptFkAssoc.Departments1"
    AssociationOtherEnd="model.entities.associations.EmpDeptFkAssoc.Employees1"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Jobs"
    Association="model.entities.associations.EmpJobFkAssoc"
    AssociationEnd="model.entities.associations.EmpJobFkAssoc.Jobs"
    AssociationOtherEnd="model.entities.associations.EmpJobFkAssoc.Employees"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="JobHistory"
    Association="model.entities.associations.JhistEmpFkAssoc"
    AssociationEnd="model.entities.associations.JhistEmpFkAssoc.JobHistory"
    AssociationOtherEnd="model.entities.associations.JhistEmpFkAssoc.Employees"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <Key
    Name="EmpEmailNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_EMAIL_NN"/>
      <Attr Name="_checkCondition" Value='"EMAIL" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpEmailUk">
    <DesignTime>
      <Attr Name="_isUnique" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_EMAIL_UK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.Email"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpEmpIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_EMP_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.EmployeeId"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpHireDateNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_HIRE_DATE_NN"/>
      <Attr Name="_checkCondition" Value='"HIRE_DATE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpJobNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_JOB_NN"/>
      <Attr Name="_checkCondition" Value='"JOB_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpLastNameNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_LAST_NAME_NN"/>
      <Attr Name="_checkCondition" Value='"LAST_NAME" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpSalaryMin">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="EMP_SALARY_MIN"/>
      <Attr Name="_checkCondition" Value="salary > 0"/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="EmpDeptFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="DEPT_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_DEPT_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.DepartmentId"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpJobFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="JOB_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_JOB_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.JobId"/>
    </AttrArray>
  </Key>
  <Key
    Name="EmpManagerFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="EMP_EMP_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="EMP_MANAGER_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Employees.ManagerId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/src/model/entities/JobHistory.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JobHistory"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="JOB_HISTORY"
  AliasName="JobHistory"
  BindingStyle="OracleName">
  <Attribute
    Name="EmployeeId"
    IsNotNull="true"
    Precision="6"
    Scale="0"
    ColumnName="EMPLOYEE_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOB_HISTORY"
    PrimaryKey="true"/>
  <Attribute
    Name="StartDate"
    IsNotNull="true"
    ColumnName="START_DATE"
    SQLType="DATE"
    Type="java.sql.Timestamp"
    ColumnType="DATE"
    TableName="JOB_HISTORY"
    PrimaryKey="true"/>
  <Attribute
    Name="EndDate"
    IsNotNull="true"
    ColumnName="END_DATE"
    SQLType="DATE"
    Type="java.sql.Timestamp"
    ColumnType="DATE"
    TableName="JOB_HISTORY"/>
  <Attribute
    Name="JobId"
    IsNotNull="true"
    Precision="10"
    ColumnName="JOB_ID"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="JOB_HISTORY">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="10"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="DepartmentId"
    Precision="4"
    Scale="0"
    ColumnName="DEPARTMENT_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOB_HISTORY"/>
  <AccessorAttribute
    Name="Departments"
    Association="model.entities.associations.JhistDeptFkAssoc"
    AssociationEnd="model.entities.associations.JhistDeptFkAssoc.Departments"
    AssociationOtherEnd="model.entities.associations.JhistDeptFkAssoc.JobHistory"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.JhistEmpFkAssoc"
    AssociationEnd="model.entities.associations.JhistEmpFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.JhistEmpFkAssoc.JobHistory"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <AccessorAttribute
    Name="Jobs"
    Association="model.entities.associations.JhistJobFkAssoc"
    AssociationEnd="model.entities.associations.JhistJobFkAssoc.Jobs"
    AssociationOtherEnd="model.entities.associations.JhistJobFkAssoc.JobHistory"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="JhistDateInterval">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_DATE_INTERVAL"/>
      <Attr Name="_checkCondition" Value="end_date > start_date"/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistEmpIdStDatePk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_EMP_ID_ST_DATE_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.EmployeeId"/>
      <Item Value="model.entities.JobHistory.StartDate"/>
    </AttrArray>
  </Key>
  <Key
    Name="JhistEmployeeNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_EMPLOYEE_NN"/>
      <Attr Name="_checkCondition" Value='"EMPLOYEE_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistEndDateNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_END_DATE_NN"/>
      <Attr Name="_checkCondition" Value='"END_DATE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistJobNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_JOB_NN"/>
      <Attr Name="_checkCondition" Value='"JOB_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistStartDateNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JHIST_START_DATE_NN"/>
      <Attr Name="_checkCondition" Value='"START_DATE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="JhistDeptFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="DEPT_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="JHIST_DEPT_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.DepartmentId"/>
    </AttrArray>
  </Key>
  <Key
    Name="JhistEmpFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="EMP_EMP_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="JHIST_EMP_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.EmployeeId"/>
    </AttrArray>
  </Key>
  <Key
    Name="JhistJobFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="JOB_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="JHIST_JOB_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.JobHistory.JobId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/src/model/entities/Jobs.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Jobs"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="JOBS"
  AliasName="Jobs"
  BindingStyle="OracleName">
  <Attribute
    Name="JobId"
    IsNotNull="true"
    Precision="10"
    ColumnName="JOB_ID"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="JOBS"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="10"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="JobTitle"
    IsNotNull="true"
    Precision="35"
    ColumnName="JOB_TITLE"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="JOBS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="35"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="MinSalary"
    Precision="6"
    Scale="0"
    ColumnName="MIN_SALARY"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOBS"/>
  <Attribute
    Name="MaxSalary"
    Precision="6"
    Scale="0"
    ColumnName="MAX_SALARY"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="JOBS"/>
  <AccessorAttribute
    Name="Employees"
    Association="model.entities.associations.EmpJobFkAssoc"
    AssociationEnd="model.entities.associations.EmpJobFkAssoc.Employees"
    AssociationOtherEnd="model.entities.associations.EmpJobFkAssoc.Jobs"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="JobHistory"
    Association="model.entities.associations.JhistJobFkAssoc"
    AssociationEnd="model.entities.associations.JhistJobFkAssoc.JobHistory"
    AssociationOtherEnd="model.entities.associations.JhistJobFkAssoc.Jobs"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <Key
    Name="JobIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JOB_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Jobs.JobId"/>
    </AttrArray>
  </Key>
  <Key
    Name="JobTitleNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="JOB_TITLE_NN"/>
      <Attr Name="_checkCondition" Value='"JOB_TITLE" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
</Entity>

## File: ListViewExample/Model/src/model/entities/Locations.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Locations"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="LOCATIONS"
  AliasName="Locations"
  BindingStyle="OracleName">
  <Attribute
    Name="LocationId"
    IsNotNull="true"
    Precision="4"
    Scale="0"
    ColumnName="LOCATION_ID"
    SQLType="NUMERIC"
    Type="java.lang.Integer"
    ColumnType="NUMBER"
    TableName="LOCATIONS"
    PrimaryKey="true"/>
  <Attribute
    Name="StreetAddress"
    Precision="40"
    ColumnName="STREET_ADDRESS"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="40"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="PostalCode"
    Precision="12"
    ColumnName="POSTAL_CODE"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="12"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="City"
    IsNotNull="true"
    Precision="30"
    ColumnName="CITY"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="30"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="StateProvince"
    Precision="25"
    ColumnName="STATE_PROVINCE"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="LOCATIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <Attribute
    Name="CountryId"
    Precision="2"
    ColumnName="COUNTRY_ID"
    SQLType="CHAR"
    Type="java.lang.String"
    ColumnType="CHAR"
    TableName="LOCATIONS"
    RetrievedOnUpdate="true"
    RetrievedOnInsert="true">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="2"/>
    </DesignTime>
  </Attribute>
  <AccessorAttribute
    Name="Departments"
    Association="model.entities.associations.DeptLocFkAssoc"
    AssociationEnd="model.entities.associations.DeptLocFkAssoc.Departments"
    AssociationOtherEnd="model.entities.associations.DeptLocFkAssoc.Locations"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <AccessorAttribute
    Name="Countries"
    Association="model.entities.associations.LocCIdFkAssoc"
    AssociationEnd="model.entities.associations.LocCIdFkAssoc.Countries"
    AssociationOtherEnd="model.entities.associations.LocCIdFkAssoc.Locations"
    Type="oracle.jbo.server.EntityImpl"
    IsUpdateable="true"/>
  <Key
    Name="LocCityNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="LOC_CITY_NN"/>
      <Attr Name="_checkCondition" Value='"CITY" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
  <Key
    Name="LocIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="LOC_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.LocationId"/>
    </AttrArray>
  </Key>
  <Key
    Name="LocCIdFk">
    <DesignTime>
      <Attr Name="_referencedKey" Value="COUNTRY_C_ID_PK"/>
      <Attr Name="_isForeign" Value="true"/>
      <Attr Name="_DBObjectName" Value="LOC_C_ID_FK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Locations.CountryId"/>
    </AttrArray>
  </Key>
</Entity>

## File: ListViewExample/Model/src/model/entities/Regions.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Entity SYSTEM "jbo_03_01.dtd">
<!---->
<Entity
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Regions"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  DBObjectType="table"
  DBObjectName="REGIONS"
  AliasName="Regions"
  BindingStyle="OracleName">
  <Attribute
    Name="RegionId"
    IsNotNull="true"
    ColumnName="REGION_ID"
    SQLType="NUMERIC"
    Type="java.math.BigDecimal"
    ColumnType="NUMBER"
    TableName="REGIONS"
    PrimaryKey="true"/>
  <Attribute
    Name="RegionName"
    Precision="25"
    ColumnName="REGION_NAME"
    SQLType="VARCHAR"
    Type="java.lang.String"
    ColumnType="VARCHAR2"
    TableName="REGIONS">
    <DesignTime>
      <Attr Name="_DisplaySize" Value="25"/>
    </DesignTime>
  </Attribute>
  <AccessorAttribute
    Name="Countries"
    Association="model.entities.associations.CountrRegFkAssoc"
    AssociationEnd="model.entities.associations.CountrRegFkAssoc.Countries"
    AssociationOtherEnd="model.entities.associations.CountrRegFkAssoc.Regions"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <Key
    Name="RegIdPk"
    PrimaryKey="true">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="REG_ID_PK"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.entities.Regions.RegionId"/>
    </AttrArray>
  </Key>
  <Key
    Name="RegionIdNn">
    <DesignTime>
      <Attr Name="_DBObjectName" Value="REGION_ID_NN"/>
      <Attr Name="_checkCondition" Value='"REGION_ID" IS NOT NULL'/>
      <Attr Name="_isCheck" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes"/>
  </Key>
</Entity>

## File: ListViewExample/Model/src/model/Model.jpx

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE JboProject SYSTEM "jbo_03_01.dtd">
<!---->
<JboProject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="Model"
  Version="12.1.3.10.8"
  SeparateXMLFiles="true"
  PackageName="model">
  <DesignTime>
    <Attr Name="_jprName" Value="../../Model.jpr"/>
    <Attr Name="_jbo.TypeMapEntries" Value="OracleApps"/>
    <Attr Name="_NamedConnection" Value="database"/>
    <Attr Name="_appModuleNames0" Value="model.services.AppModuleAppModule"/>
  </DesignTime>
  <Containee
    Name="associations"
    PackageName="model.entities.associations"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_AS" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="entities"
    PackageName="model.entities"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_EO" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="services"
    PackageName="model.services"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_AM" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="link"
    PackageName="model.views.link"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_VL" Value="true"/>
    </DesignTime>
  </Containee>
  <Containee
    Name="views"
    PackageName="model.views"
    ObjectType="JboPackage">
    <DesignTime>
      <Attr Name="_VO" Value="true"/>
    </DesignTime>
  </Containee>
</JboProject>

## File: ListViewExample/Model/src/model/services/AppModuleAppModule.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE AppModule SYSTEM "jbo_03_01.dtd">
<!---->
<AppModule
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="AppModuleAppModule"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  ClearCacheOnRollback="true">
  <ViewUsage
    Name="Countries1"
    ViewObjectName="model.views.CountriesView"/>
  <ViewUsage
    Name="Departments1"
    ViewObjectName="model.views.DepartmentsView"/>
  <ViewUsage
    Name="Employees1"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="JobHistory1"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="Jobs1"
    ViewObjectName="model.views.JobsView"/>
  <ViewUsage
    Name="Locations1"
    ViewObjectName="model.views.LocationsView"/>
  <ViewUsage
    Name="Regions1"
    ViewObjectName="model.views.RegionsView"/>
  <ViewUsage
    Name="Departments2"
    ViewObjectName="model.views.DepartmentsView"/>
  <ViewUsage
    Name="Employees2"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="Employees3"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="Employees4"
    ViewObjectName="model.views.EmployeesView"/>
  <ViewUsage
    Name="JobHistory2"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="JobHistory3"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="JobHistory4"
    ViewObjectName="model.views.JobHistoryView"/>
  <ViewUsage
    Name="Departments3"
    ViewObjectName="model.views.DepartmentsView"/>
  <ViewUsage
    Name="Locations2"
    ViewObjectName="model.views.LocationsView"/>
  <ViewUsage
    Name="Countries2"
    ViewObjectName="model.views.CountriesView"/>
  <ViewLinkUsage
    Name="DeptMgrFkLink1"
    ViewLinkObjectName="model.views.link.DeptMgrFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Employees1"
    DstViewUsageName="model.services.AppModuleAppModule.Departments2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="EmpManagerFkLink1"
    ViewLinkObjectName="model.views.link.EmpManagerFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Employees1"
    DstViewUsageName="model.services.AppModuleAppModule.Employees2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="EmpDeptFkLink1"
    ViewLinkObjectName="model.views.link.EmpDeptFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Departments1"
    DstViewUsageName="model.services.AppModuleAppModule.Employees3"
    Reversed="false"/>
  <ViewLinkUsage
    Name="EmpJobFkLink1"
    ViewLinkObjectName="model.views.link.EmpJobFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Jobs1"
    DstViewUsageName="model.services.AppModuleAppModule.Employees4"
    Reversed="false"/>
  <ViewLinkUsage
    Name="JhistDeptFkLink1"
    ViewLinkObjectName="model.views.link.JhistDeptFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Departments1"
    DstViewUsageName="model.services.AppModuleAppModule.JobHistory2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="JhistEmpFkLink1"
    ViewLinkObjectName="model.views.link.JhistEmpFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Employees1"
    DstViewUsageName="model.services.AppModuleAppModule.JobHistory3"
    Reversed="false"/>
  <ViewLinkUsage
    Name="JhistJobFkLink1"
    ViewLinkObjectName="model.views.link.JhistJobFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Jobs1"
    DstViewUsageName="model.services.AppModuleAppModule.JobHistory4"
    Reversed="false"/>
  <ViewLinkUsage
    Name="DeptLocFkLink1"
    ViewLinkObjectName="model.views.link.DeptLocFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Locations1"
    DstViewUsageName="model.services.AppModuleAppModule.Departments3"
    Reversed="false"/>
  <ViewLinkUsage
    Name="LocCIdFkLink1"
    ViewLinkObjectName="model.views.link.LocCIdFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Countries1"
    DstViewUsageName="model.services.AppModuleAppModule.Locations2"
    Reversed="false"/>
  <ViewLinkUsage
    Name="CountrRegFkLink1"
    ViewLinkObjectName="model.views.link.CountrRegFkLink"
    SrcViewUsageName="model.services.AppModuleAppModule.Regions1"
    DstViewUsageName="model.services.AppModuleAppModule.Countries2"
    Reversed="false"/>
</AppModule>

## File: ListViewExample/Model/src/model/services/common/bc4j.xcfg

<?xml version = '1.0' encoding = 'UTF-8'?>
<BC4JConfig version="11.1" xmlns="http://xmlns.oracle.com/bc4j/configuration">
   <AppModuleConfigBag ApplicationName="model.services.AppModuleAppModule">
      <AppModuleConfig name="AppModuleAppModuleLocal" jbo.project="model.Model" ApplicationName="model.services.AppModuleAppModule" DeployPlatform="LOCAL">
         <Database jbo.TypeMapEntries="OracleApps"/>
         <Security AppModuleJndiName="model.services.AppModuleAppModule"/>
         <Custom ns0:JDBCDataSource="java:comp/env/jdbc/databaseDS" xmlns:ns0="http://xmlns.oracle.com/bc4j/configuration"/>
      </AppModuleConfig>
      <AppModuleConfig name="AppModuleAppModuleShared" jbo.project="model.Model" ApplicationName="model.services.AppModuleAppModule" DeployPlatform="LOCAL">
         <AM-Pooling jbo.ampool.maxpoolsize="1" jbo.ampool.isuseexclusive="false"/>
         <Database jbo.TypeMapEntries="OracleApps"/>
         <Security AppModuleJndiName="model.services.AppModuleAppModule"/>
         <Custom ns0:JDBCDataSource="java:comp/env/jdbc/databaseDS" xmlns:ns0="http://xmlns.oracle.com/bc4j/configuration"/>
      </AppModuleConfig>
   </AppModuleConfigBag>
</BC4JConfig>

## File: ListViewExample/Model/src/model/views/CountriesView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="CountriesView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Countries"
    Entity="model.entities.Countries"/>
  <ViewAttribute
    Name="CountryId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="CountryId"
    EntityUsage="Countries"
    AliasName="COUNTRY_ID"/>
  <ViewAttribute
    Name="CountryName"
    PrecisionRule="true"
    EntityAttrName="CountryName"
    EntityUsage="Countries"
    AliasName="COUNTRY_NAME"/>
  <ViewAttribute
    Name="RegionId"
    PrecisionRule="true"
    EntityAttrName="RegionId"
    EntityUsage="Countries"
    AliasName="REGION_ID"/>
  <ViewLinkAccessor
    Name="Locations"
    ViewLink="model.views.link.LocCIdFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/src/model/views/DepartmentsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DepartmentsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Departments"
    Entity="model.entities.Departments"/>
  <ViewAttribute
    Name="DepartmentId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="DepartmentId"
    EntityUsage="Departments"
    AliasName="DEPARTMENT_ID"/>
  <ViewAttribute
    Name="DepartmentName"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="DepartmentName"
    EntityUsage="Departments"
    AliasName="DEPARTMENT_NAME"/>
  <ViewAttribute
    Name="ManagerId"
    PrecisionRule="true"
    EntityAttrName="ManagerId"
    EntityUsage="Departments"
    AliasName="MANAGER_ID"/>
  <ViewAttribute
    Name="LocationId"
    PrecisionRule="true"
    EntityAttrName="LocationId"
    EntityUsage="Departments"
    AliasName="LOCATION_ID"/>
  <ViewLinkAccessor
    Name="Employees"
    ViewLink="model.views.link.EmpDeptFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="JobHistory"
    ViewLink="model.views.link.JhistDeptFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/src/model/views/EmployeesView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmployeesView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Employees"
    Entity="model.entities.Employees"/>
  <ViewAttribute
    Name="EmployeeId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="EmployeeId"
    EntityUsage="Employees"
    AliasName="EMPLOYEE_ID"/>
  <ViewAttribute
    Name="FirstName"
    PrecisionRule="true"
    EntityAttrName="FirstName"
    EntityUsage="Employees"
    AliasName="FIRST_NAME"/>
  <ViewAttribute
    Name="LastName"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="LastName"
    EntityUsage="Employees"
    AliasName="LAST_NAME"/>
  <ViewAttribute
    Name="Email"
    IsUnique="true"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="Email"
    EntityUsage="Employees"
    AliasName="EMAIL"/>
  <ViewAttribute
    Name="PhoneNumber"
    PrecisionRule="true"
    EntityAttrName="PhoneNumber"
    EntityUsage="Employees"
    AliasName="PHONE_NUMBER"/>
  <ViewAttribute
    Name="HireDate"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="HireDate"
    EntityUsage="Employees"
    AliasName="HIRE_DATE"/>
  <ViewAttribute
    Name="JobId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobId"
    EntityUsage="Employees"
    AliasName="JOB_ID"/>
  <ViewAttribute
    Name="Salary"
    PrecisionRule="true"
    EntityAttrName="Salary"
    EntityUsage="Employees"
    AliasName="SALARY"/>
  <ViewAttribute
    Name="CommissionPct"
    PrecisionRule="true"
    EntityAttrName="CommissionPct"
    EntityUsage="Employees"
    AliasName="COMMISSION_PCT"/>
  <ViewAttribute
    Name="ManagerId"
    PrecisionRule="true"
    EntityAttrName="ManagerId"
    EntityUsage="Employees"
    AliasName="MANAGER_ID"/>
  <ViewAttribute
    Name="DepartmentId"
    PrecisionRule="true"
    EntityAttrName="DepartmentId"
    EntityUsage="Employees"
    AliasName="DEPARTMENT_ID"/>
  <ViewLinkAccessor
    Name="Departments"
    ViewLink="model.views.link.DeptMgrFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="Employees1"
    ViewLink="model.views.link.EmpManagerFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="JobHistory"
    ViewLink="model.views.link.JhistEmpFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/src/model/views/JobHistoryView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JobHistoryView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="JobHistory"
    Entity="model.entities.JobHistory"/>
  <ViewAttribute
    Name="EmployeeId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="EmployeeId"
    EntityUsage="JobHistory"
    AliasName="EMPLOYEE_ID"/>
  <ViewAttribute
    Name="StartDate"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="StartDate"
    EntityUsage="JobHistory"
    AliasName="START_DATE"/>
  <ViewAttribute
    Name="EndDate"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="EndDate"
    EntityUsage="JobHistory"
    AliasName="END_DATE"/>
  <ViewAttribute
    Name="JobId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobId"
    EntityUsage="JobHistory"
    AliasName="JOB_ID"/>
  <ViewAttribute
    Name="DepartmentId"
    PrecisionRule="true"
    EntityAttrName="DepartmentId"
    EntityUsage="JobHistory"
    AliasName="DEPARTMENT_ID"/>
</ViewObject>

## File: ListViewExample/Model/src/model/views/JobsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JobsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Jobs"
    Entity="model.entities.Jobs"/>
  <ViewAttribute
    Name="JobId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobId"
    EntityUsage="Jobs"
    AliasName="JOB_ID"/>
  <ViewAttribute
    Name="JobTitle"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="JobTitle"
    EntityUsage="Jobs"
    AliasName="JOB_TITLE"/>
  <ViewAttribute
    Name="MinSalary"
    PrecisionRule="true"
    EntityAttrName="MinSalary"
    EntityUsage="Jobs"
    AliasName="MIN_SALARY"/>
  <ViewAttribute
    Name="MaxSalary"
    PrecisionRule="true"
    EntityAttrName="MaxSalary"
    EntityUsage="Jobs"
    AliasName="MAX_SALARY"/>
  <ViewLinkAccessor
    Name="Employees"
    ViewLink="model.views.link.EmpJobFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
  <ViewLinkAccessor
    Name="JobHistory"
    ViewLink="model.views.link.JhistJobFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/src/model/views/link/CountrRegFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="CountrRegFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.CountrRegFkAssoc">
  <ViewLinkDefEnd
    Name="Regions"
    Cardinality="1"
    Source="true"
    Owner="model.views.RegionsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Regions"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.RegionsView.RegionId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Countries"
    Cardinality="-1"
    Owner="model.views.CountriesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.CountriesView.RegionId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/DeptLocFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptLocFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.DeptLocFkAssoc">
  <ViewLinkDefEnd
    Name="Locations"
    Cardinality="1"
    Source="true"
    Owner="model.views.LocationsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.LocationsView.LocationId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.LocationId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/DeptMgrFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="DeptMgrFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.DeptMgrFkAssoc">
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Departments"
    Cardinality="-1"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.ManagerId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/EmpDeptFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpDeptFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.EmpDeptFkAssoc">
  <ViewLinkDefEnd
    Name="Departments1_1"
    Cardinality="1"
    Source="true"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments1"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/EmpJobFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpJobFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.EmpJobFkAssoc">
  <ViewLinkDefEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.views.JobsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobsView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="-1"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/EmpManagerFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="EmpManagerFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.EmpManagerFkAssoc">
  <ViewLinkDefEnd
    Name="ManagerIdEmployees"
    Cardinality="1"
    Source="true"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="ManagerIdEmployees"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Employees1"
    Cardinality="-1"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees1"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.ManagerId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/JhistDeptFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistDeptFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.JhistDeptFkAssoc">
  <ViewLinkDefEnd
    Name="Departments"
    Cardinality="1"
    Source="true"
    Owner="model.views.DepartmentsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Departments"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.DepartmentsView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.views.JobHistoryView">
    <DesignTime>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobHistoryView.DepartmentId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/JhistEmpFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistEmpFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.JhistEmpFkAssoc">
  <ViewLinkDefEnd
    Name="Employees"
    Cardinality="1"
    Source="true"
    Owner="model.views.EmployeesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Employees"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.EmployeesView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.views.JobHistoryView">
    <DesignTime>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobHistoryView.EmployeeId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/JhistJobFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="JhistJobFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.JhistJobFkAssoc">
  <ViewLinkDefEnd
    Name="Jobs"
    Cardinality="1"
    Source="true"
    Owner="model.views.JobsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Jobs"/>
      <Attr Name="_isUpdateable" Value="true"/>
      <Attr Name="_minCardinality" Value="1"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobsView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="JobHistory"
    Cardinality="-1"
    Owner="model.views.JobHistoryView">
    <DesignTime>
      <Attr Name="_finderName" Value="JobHistory"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.JobHistoryView.JobId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/link/LocCIdFkLink.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewLink SYSTEM "jbo_03_01.dtd">
<!---->
<ViewLink
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="LocCIdFkLink"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  EntityAssociation="model.entities.associations.LocCIdFkAssoc">
  <ViewLinkDefEnd
    Name="Countries"
    Cardinality="1"
    Source="true"
    Owner="model.views.CountriesView">
    <DesignTime>
      <Attr Name="_finderName" Value="Countries"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.CountriesView.CountryId"/>
    </AttrArray>
  </ViewLinkDefEnd>
  <ViewLinkDefEnd
    Name="Locations"
    Cardinality="-1"
    Owner="model.views.LocationsView">
    <DesignTime>
      <Attr Name="_finderName" Value="Locations"/>
      <Attr Name="_isUpdateable" Value="true"/>
    </DesignTime>
    <AttrArray Name="Attributes">
      <Item Value="model.views.LocationsView.CountryId"/>
    </AttrArray>
  </ViewLinkDefEnd>
</ViewLink>

## File: ListViewExample/Model/src/model/views/LocationsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="LocationsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Locations"
    Entity="model.entities.Locations"/>
  <ViewAttribute
    Name="LocationId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="LocationId"
    EntityUsage="Locations"
    AliasName="LOCATION_ID"/>
  <ViewAttribute
    Name="StreetAddress"
    PrecisionRule="true"
    EntityAttrName="StreetAddress"
    EntityUsage="Locations"
    AliasName="STREET_ADDRESS"/>
  <ViewAttribute
    Name="PostalCode"
    PrecisionRule="true"
    EntityAttrName="PostalCode"
    EntityUsage="Locations"
    AliasName="POSTAL_CODE"/>
  <ViewAttribute
    Name="City"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="City"
    EntityUsage="Locations"
    AliasName="CITY"/>
  <ViewAttribute
    Name="StateProvince"
    PrecisionRule="true"
    EntityAttrName="StateProvince"
    EntityUsage="Locations"
    AliasName="STATE_PROVINCE"/>
  <ViewAttribute
    Name="CountryId"
    PrecisionRule="true"
    EntityAttrName="CountryId"
    EntityUsage="Locations"
    AliasName="COUNTRY_ID"/>
  <ViewLinkAccessor
    Name="Departments"
    ViewLink="model.views.link.DeptLocFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/Model/src/model/views/RegionsView.xml

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE ViewObject SYSTEM "jbo_03_01.dtd">
<!---->
<ViewObject
  xmlns="http://xmlns.oracle.com/bc4j"
  Name="RegionsView"
  Version="12.1.3.10.8"
  InheritPersonalization="merge"
  SelectListFlags="1"
  FromListFlags="1"
  WhereFlags="1"
  BindingStyle="OracleName"
  CustomQuery="false"
  SelectAllAttributes="false"
  PageIterMode="Full">
  <EntityUsage
    Name="Regions"
    Entity="model.entities.Regions"/>
  <ViewAttribute
    Name="RegionId"
    IsNotNull="true"
    PrecisionRule="true"
    EntityAttrName="RegionId"
    EntityUsage="Regions"
    AliasName="REGION_ID"/>
  <ViewAttribute
    Name="RegionName"
    PrecisionRule="true"
    EntityAttrName="RegionName"
    EntityUsage="Regions"
    AliasName="REGION_NAME"/>
  <ViewLinkAccessor
    Name="Countries"
    ViewLink="model.views.link.CountrRegFkLink"
    Type="oracle.jbo.RowIterator"
    IsUpdateable="false"/>
</ViewObject>

## File: ListViewExample/src/META-INF/jps-config.xml

<?xml version = '1.0' encoding = 'UTF-8'?>
<jpsConfig xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://xmlns.oracle.com/oracleas/schema/11/jps-config-11_1.xsd jps-config-11_1.xsd" xmlns="http://xmlns.oracle.com/oracleas/schema/11/jps-config-11_1.xsd">
   <serviceProviders>
      <serviceProvider type="CREDENTIAL_STORE" name="credstore.provider" class="oracle.security.jps.internal.credstore.ssp.SspCredentialStoreProvider">
         <description>Credential Store Service Provider</description>
      </serviceProvider>
   </serviceProviders>
   <serviceInstances>
      <serviceInstance name="credstore" provider="credstore.provider">
         <property name="location" value="./"/>
      </serviceInstance>
   </serviceInstances>
   <jpsContexts default="ListViewExample">
      <jpsContext name="ListViewExample">
         <serviceInstanceRef ref="credstore"/>
      </jpsContext>
   </jpsContexts>
</jpsConfig>

## File: ListViewExample/src/META-INF/weblogic-application.xml

<?xml version = '1.0' encoding = 'UTF-8'?>
<weblogic-application xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                      xsi:schemaLocation="http://xmlns.oracle.com/weblogic/weblogic-application http://xmlns.oracle.com/weblogic/weblogic-application/1.5/weblogic-application.xsd"
                      xmlns="http://xmlns.oracle.com/weblogic/weblogic-application">
  <listener>
    <listener-class>oracle.adf.share.weblogic.listeners.ADFApplicationStateListener</listener-class>
  </listener>
  <listener>
    <listener-class>oracle.mds.lcm.weblogic.WLLifecycleListener</listener-class>
  </listener>
  <library-ref>
    <library-name>adf.oracle.domain</library-name>
  </library-ref>
</weblogic-application>

## File: ListViewExample/ViewController/adfmsrc/META-INF/adfm.xml

<?xml version="1.0" encoding="UTF-8" ?>
<MetadataDirectory xmlns="http://xmlns.oracle.com/adfm/metainf" version="11.1.1.0.0">
  <DataBindingRegistry path="view/DataBindings.cpx"/>
</MetadataDirectory>

## File: ListViewExample/ViewController/adfmsrc/view/DataBindings.cpx

<?xml version="1.0" encoding="UTF-8" ?>
<Application xmlns="http://xmlns.oracle.com/adfm/application" version="12.1.3.10.8" id="DataBindings"
             SeparateXMLFiles="false" Package="view" ClientType="Generic">
  <pageMap>
    <page path="/employeeListView.jsf" usageId="view_employeeListViewPageDef"/>
  </pageMap>
  <pageDefinitionUsages>
    <page id="view_employeeListViewPageDef" path="view.pageDefs.employeeListViewPageDef"/>
  </pageDefinitionUsages>
  <dataControlUsages>
    <BC4JDataControl id="AppModuleAppModuleDataControl" Package="model.services"
                     FactoryClass="oracle.adf.model.bc4j.DataControlFactoryImpl" SupportsTransactions="true"
                     SupportsFindMode="true" SupportsRangesize="true" SupportsResetState="true"
                     SupportsSortCollection="true" Configuration="AppModuleAppModuleLocal" syncMode="Immediate"
                     xmlns="http://xmlns.oracle.com/adfm/datacontrol"/>
  </dataControlUsages>
</Application>

## File: ListViewExample/ViewController/adfmsrc/view/pageDefs/employeeListViewPageDef.xml

<?xml version="1.0" encoding="UTF-8" ?>
<pageDefinition xmlns="http://xmlns.oracle.com/adfm/uimodel" version="12.1.3.10.8" id="employeeListViewPageDef"
                Package="view.pageDefs">
  <parameters/>
  <executables>
    <variableIterator id="variables"/>
    <iterator Binds="Employees1" RangeSize="25" DataControl="AppModuleAppModuleDataControl" id="Employees1Iterator"/>
    <iterator Binds="Employees2" RangeSize="25" DataControl="AppModuleAppModuleDataControl" id="Employees2Iterator"/>
  </executables>
  <bindings>
    <tree IterBinding="Employees1Iterator" id="Employees1">
      <nodeDefinition DefName="model.views.EmployeesView" Name="Employees10">
        <AttrNames>
          <Item Value="EmployeeId"/>
          <Item Value="FirstName"/>
          <Item Value="LastName"/>
          <Item Value="Email"/>
          <Item Value="PhoneNumber"/>
          <Item Value="HireDate"/>
          <Item Value="JobId"/>
          <Item Value="Salary"/>
          <Item Value="CommissionPct"/>
          <Item Value="ManagerId"/>
          <Item Value="DepartmentId"/>
        </AttrNames>
      </nodeDefinition>
    </tree>
    <tree IterBinding="Employees2Iterator" id="Employees2">
      <nodeDefinition DefName="model.views.EmployeesView" Name="Employees20">
        <AttrNames>
          <Item Value="EmployeeId"/>
          <Item Value="FirstName"/>
          <Item Value="LastName"/>
          <Item Value="Email"/>
          <Item Value="PhoneNumber"/>
          <Item Value="HireDate"/>
          <Item Value="JobId"/>
          <Item Value="Salary"/>
          <Item Value="CommissionPct"/>
          <Item Value="ManagerId"/>
          <Item Value="DepartmentId"/>
        </AttrNames>
      </nodeDefinition>
    </tree>
    <tree IterBinding="Employees2Iterator" id="Employees21">
      <nodeDefinition DefName="model.views.EmployeesView" Name="Employees210">
        <AttrNames>
          <Item Value="EmployeeId"/>
          <Item Value="FirstName"/>
          <Item Value="LastName"/>
          <Item Value="Email"/>
          <Item Value="PhoneNumber"/>
          <Item Value="HireDate"/>
          <Item Value="JobId"/>
          <Item Value="Salary"/>
          <Item Value="CommissionPct"/>
          <Item Value="ManagerId"/>
          <Item Value="DepartmentId"/>
        </AttrNames>
      </nodeDefinition>
    </tree>
  </bindings>
</pageDefinition>

## File: ListViewExample/ViewController/classes/.data/ViewController.cdi

None

## File: ListViewExample/ViewController/classes/META-INF/adf-settings.xml

<?xml version="1.0" encoding="UTF-8" ?>
<adf-settings xmlns="http://xmlns.oracle.com/adf/settings"></adf-settings>

## File: ListViewExample/ViewController/classes/META-INF/adfm.xml

<?xml version="1.0" encoding="UTF-8" ?>
<MetadataDirectory xmlns="http://xmlns.oracle.com/adfm/metainf" version="11.1.1.0.0">
  <DataBindingRegistry path="view/DataBindings.cpx"/>
</MetadataDirectory>

## File: ListViewExample/ViewController/classes/META-INF/task-flow-registry.xml

<?xml version = '1.0' encoding = 'UTF-8'?>
<task-flow-registry xmlns="http://xmlns.oracle.com/adf/controller/rc">
   <task-flow-descriptor path="META-INF/adfc-config.xml" id="" type="" uses-page-fragments="false" library-internal="false" remote-invocable="false" train="false" critical="false" page-type="unspecified"/>
</task-flow-registry>

## File: ListViewExample/ViewController/classes/view/DataBindings.cpx

<?xml version="1.0" encoding="UTF-8" ?>
<Application xmlns="http://xmlns.oracle.com/adfm/application" version="12.1.3.10.8" id="DataBindings"
             SeparateXMLFiles="false" Package="view" ClientType="Generic">
  <pageMap>
    <page path="/employeeListView.jsf" usageId="view_employeeListViewPageDef"/>
  </pageMap>
  <pageDefinitionUsages>
    <page id="view_employeeListViewPageDef" path="view.pageDefs.employeeListViewPageDef"/>
  </pageDefinitionUsages>
  <dataControlUsages>
    <BC4JDataControl id="AppModuleAppModuleDataControl" Package="model.services"
                     FactoryClass="oracle.adf.model.bc4j.DataControlFactoryImpl" SupportsTransactions="true"
                     SupportsFindMode="true" SupportsRangesize="true" SupportsResetState="true"
                     SupportsSortCollection="true" Configuration="AppModuleAppModuleLocal" syncMode="Immediate"
                     xmlns="http://xmlns.oracle.com/adfm/datacontrol"/>
  </dataControlUsages>
</Application>

## File: ListViewExample/ViewController/classes/view/pageDefs/employeeListViewPageDef.xml

<?xml version="1.0" encoding="UTF-8" ?>
<pageDefinition xmlns="http://xmlns.oracle.com/adfm/uimodel" version="12.1.3.10.8" id="employeeListViewPageDef"
                Package="view.pageDefs">
  <parameters/>
  <executables>
    <variableIterator id="variables"/>
    <iterator Binds="Employees1" RangeSize="25" DataControl="AppModuleAppModuleDataControl" id="Employees1Iterator"/>
    <iterator Binds="Employees2" RangeSize="25" DataControl="AppModuleAppModuleDataControl" id="Employees2Iterator"/>
  </executables>
  <bindings>
    <tree IterBinding="Employees1Iterator" id="Employees1">
      <nodeDefinition DefName="model.views.EmployeesView" Name="Employees10">
        <AttrNames>
          <Item Value="EmployeeId"/>
          <Item Value="FirstName"/>
          <Item Value="LastName"/>
          <Item Value="Email"/>
          <Item Value="PhoneNumber"/>
          <Item Value="HireDate"/>
          <Item Value="JobId"/>
          <Item Value="Salary"/>
          <Item Value="CommissionPct"/>
          <Item Value="ManagerId"/>
          <Item Value="DepartmentId"/>
        </AttrNames>
      </nodeDefinition>
    </tree>
    <tree IterBinding="Employees2Iterator" id="Employees2">
      <nodeDefinition DefName="model.views.EmployeesView" Name="Employees20">
        <AttrNames>
          <Item Value="EmployeeId"/>
          <Item Value="FirstName"/>
          <Item Value="LastName"/>
          <Item Value="Email"/>
          <Item Value="PhoneNumber"/>
          <Item Value="HireDate"/>
          <Item Value="JobId"/>
          <Item Value="Salary"/>
          <Item Value="CommissionPct"/>
          <Item Value="ManagerId"/>
          <Item Value="DepartmentId"/>
        </AttrNames>
      </nodeDefinition>
    </tree>
    <tree IterBinding="Employees2Iterator" id="Employees21">
      <nodeDefinition DefName="model.views.EmployeesView" Name="Employees210">
        <AttrNames>
          <Item Value="EmployeeId"/>
          <Item Value="FirstName"/>
          <Item Value="LastName"/>
          <Item Value="Email"/>
          <Item Value="PhoneNumber"/>
          <Item Value="HireDate"/>
          <Item Value="JobId"/>
          <Item Value="Salary"/>
          <Item Value="CommissionPct"/>
          <Item Value="ManagerId"/>
          <Item Value="DepartmentId"/>
        </AttrNames>
      </nodeDefinition>
    </tree>
  </bindings>
</pageDefinition>

## File: ListViewExample/ViewController/public_html/employeeListView.jsf

<?xml version='1.0' encoding='UTF-8'?>
<!DOCTYPE html>
<f:view xmlns:f="http://java.sun.com/jsf/core" xmlns:af="http://xmlns.oracle.com/adf/faces/rich"
        xmlns:dvt="http://xmlns.oracle.com/dss/adf/faces">
  <af:document title="Employee management" id="d1">
    <af:messages id="m1"/>
    <af:form id="f1">
      <af:panelGridLayout id="pgl1">
        <af:gridRow marginTop="5px" height="auto" marginBottom="5px" id="gr1">
          <af:gridCell marginStart="5px" width="50%" id="gc1" halign="stretch">
            <af:panelHeader text="Employees" id="ph1">
              <af:table id="md1" rows="#{bindings.Employees1.rangeSize}" fetchSize="#{bindings.Employees1.rangeSize}"
                        emptyText="#{bindings.Employees1.viewable ? 'No data to display.' : 'Access Denied.'}" var="row"
                        value="#{bindings.Employees1.collectionModel}" rowBandingInterval="0"
                        selectedRowKeys="#{bindings.Employees1.collectionModel.selectedRow}"
                        selectionListener="#{bindings.Employees1.collectionModel.makeCurrent}" rowSelection="single">
                <af:column headerText="#{bindings.Employees1.hints.EmployeeId.label}"
                           sortProperty="#{bindings.Employees1.hints.EmployeeId.name}" sortable="true" id="c1"
                           inlineStyle="font-size:larger;">
                  <af:outputText value="#{row.EmployeeId}" shortDesc="#{bindings.Employees1.hints.EmployeeId.tooltip}"
                                 id="ot1" inlineStyle="font-size:larger;">
                    <af:convertNumber groupingUsed="false" pattern="#{bindings.Employees1.hints.EmployeeId.format}"/>
                  </af:outputText>
                </af:column>
                <af:column headerText="#{bindings.Employees1.hints.FirstName.label}"
                           sortProperty="#{bindings.Employees1.hints.FirstName.name}" sortable="false" id="c2">
                  <af:outputText value="#{row.FirstName}" shortDesc="#{bindings.Employees1.hints.FirstName.tooltip}"
                                 id="ot2" inlineStyle="font-size:larger;"/>
                </af:column>
                <af:column headerText="#{bindings.Employees1.hints.LastName.label}"
                           sortProperty="#{bindings.Employees1.hints.LastName.name}" sortable="false" id="c3">
                  <af:outputText value="#{row.LastName}" shortDesc="#{bindings.Employees1.hints.LastName.tooltip}"
                                 id="ot3" inlineStyle="font-size:larger;"/>
                </af:column>
                <af:column headerText="#{bindings.Employees1.hints.ManagerId.label}"
                           sortProperty="#{bindings.Employees1.hints.ManagerId.name}" sortable="true" id="c10">
                  <af:outputText value="#{row.ManagerId}" shortDesc="#{bindings.Employees1.hints.ManagerId.tooltip}"
                                 id="ot10" inlineStyle="font-size:larger;">
                    <af:convertNumber groupingUsed="false" pattern="#{bindings.Employees1.hints.ManagerId.format}"/>
                  </af:outputText>
                </af:column>
              </af:table>
            </af:panelHeader>
          </af:gridCell>
          <af:gridCell marginStart="5px" width="50%" marginEnd="5px" id="gc2">
            <af:decorativeBox id="db1">
              <f:facet name="center">
                <af:panelGroupLayout id="pgl2">
                  <af:panelHeader text="Managed employees" id="ph2">
                    <af:listView value="#{bindings.Employees21.collectionModel}" var="item"
                                 emptyText="#{bindings.Employees21.viewable ? 'No data to display.' : 'Access Denied.'}"
                                 fetchSize="#{bindings.Employees21.rangeSize}" id="lv1" partialTriggers="::md1">
                      <af:listItem id="li1">
                        <af:panelGroupLayout layout="horizontal" id="pgl3">
                          <af:outputFormatted value="#{item.bindings.EmployeeId} #{item.bindings.FirstName} #{item.bindings.LastName}"
                                              id="of1" inlineStyle="font-size:larger;"/>
                          <af:spacer width="10" height="10" id="s1"/>
                          <dvt:ratingGauge id="ratingGauge1_#{item.bindings.EmployeeId}" value="0" minimum="0"
                                           maximum="5" shape="star" readOnly="false"
                                           valueChangeListener="#{ListViewBean.ratingChanged}"
                                           customId="#{item.bindings.EmployeeId}"/>
                        </af:panelGroupLayout>
                      </af:listItem>
                    </af:listView>
                  </af:panelHeader>
                </af:panelGroupLayout>
              </f:facet>
              <f:facet name="top"/>
            </af:decorativeBox>
          </af:gridCell>
        </af:gridRow>
      </af:panelGridLayout>
    </af:form>
  </af:document>
</f:view>

## File: ListViewExample/ViewController/public_html/WEB-INF/adfc-config.xml

<?xml version="1.0" encoding="UTF-8" ?>
<adfc-config xmlns="http://xmlns.oracle.com/adf/controller" version="1.2">
  <managed-bean id="__1">
    <managed-bean-name>ListViewBean</managed-bean-name>
    <managed-bean-class>view.ListViewBean</managed-bean-class>
    <managed-bean-scope>request</managed-bean-scope>
  </managed-bean>
</adfc-config>

## File: ListViewExample/ViewController/public_html/WEB-INF/faces-config.xml

<?xml version="1.0" encoding="UTF-8"?>
<faces-config version="2.1" xmlns="http://java.sun.com/xml/ns/javaee">
  <application>
    <default-render-kit-id>oracle.adf.rich</default-render-kit-id>
  </application>
</faces-config>

## File: ListViewExample/ViewController/public_html/WEB-INF/trinidad-config.xml

<?xml version="1.0" encoding="UTF-8"?>
<trinidad-config xmlns="http://myfaces.apache.org/trinidad/config">
  <skin-family>skyros</skin-family>
  <skin-version>v1</skin-version>
</trinidad-config>

## File: ListViewExample/ViewController/public_html/WEB-INF/web.xml

<?xml version = '1.0' encoding = 'UTF-8'?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
         version="3.0">
  <servlet>
    <servlet-name>Faces Servlet</servlet-name>
    <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
    <load-on-startup>1</load-on-startup>
  </servlet>
  <servlet>
    <servlet-name>resources</servlet-name>
    <servlet-class>org.apache.myfaces.trinidad.webapp.ResourceServlet</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>BIGRAPHSERVLET</servlet-name>
    <servlet-class>oracle.adf.view.faces.bi.webapp.GraphServlet</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>BIGAUGESERVLET</servlet-name>
    <servlet-class>oracle.adf.view.faces.bi.webapp.GaugeServlet</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>MapProxyServlet</servlet-name>
    <servlet-class>oracle.adf.view.faces.bi.webapp.MapProxyServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>Faces Servlet</servlet-name>
    <url-pattern>/faces/*</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>resources</servlet-name>
    <url-pattern>/adf/*</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>resources</servlet-name>
    <url-pattern>/afr/*</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>BIGRAPHSERVLET</servlet-name>
    <url-pattern>/servlet/GraphServlet/*</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>BIGAUGESERVLET</servlet-name>
    <url-pattern>/servlet/GaugeServlet/*</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>MapProxyServlet</servlet-name>
    <url-pattern>/mapproxy/*</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>resources</servlet-name>
    <url-pattern>/bi/*</url-pattern>
  </servlet-mapping>
  <filter>
    <filter-name>trinidad</filter-name>
    <filter-class>org.apache.myfaces.trinidad.webapp.TrinidadFilter</filter-class>
  </filter>
  <filter>
    <filter-name>adfBindings</filter-name>
    <filter-class>oracle.adf.model.servlet.ADFBindingFilter</filter-class>
  </filter>
  <filter-mapping>
    <filter-name>trinidad</filter-name>
    <servlet-name>Faces Servlet</servlet-name>
    <dispatcher>FORWARD</dispatcher>
    <dispatcher>REQUEST</dispatcher>
    <dispatcher>ERROR</dispatcher>
  </filter-mapping>
  <filter-mapping>
    <filter-name>adfBindings</filter-name>
    <servlet-name>Faces Servlet</servlet-name>
    <dispatcher>FORWARD</dispatcher>
    <dispatcher>REQUEST</dispatcher>
  </filter-mapping>
  <context-param>
    <param-name>javax.faces.STATE_SAVING_METHOD</param-name>
    <param-value>client</param-value>
  </context-param>
  <context-param>
    <param-name>javax.faces.PARTIAL_STATE_SAVING</param-name>
    <param-value>false</param-value>
  </context-param>
  <context-param>
    <description>If this parameter is true, there will be an automatic check of the modification date of your JSPs, and saved state will be discarded when JSP's change. It will also automatically check if your skinning css files have changed without you having to restart the server. This makes development easier, but adds overhead. For this reason this parameter should be set to false when your application is deployed.</description>
    <param-name>org.apache.myfaces.trinidad.CHECK_FILE_MODIFICATION</param-name>
    <param-value>false</param-value>
  </context-param>
  <context-param>
    <description>Whether the 'Generated by...' comment at the bottom of ADF Faces HTML pages should contain version number information.</description>
    <param-name>oracle.adf.view.rich.versionString.HIDDEN</param-name>
    <param-value>true</param-value>
  </context-param>
  <context-param>
    <description>Security precaution to prevent clickjacking: bust frames if the ancestor window domain(protocol, host, and port) and the frame domain are different. Another options for this parameter are always and never.</description>
    <param-name>org.apache.myfaces.trinidad.security.FRAME_BUSTING</param-name>
    <param-value>differentOrigin</param-value>
  </context-param>
  <context-param>
    <param-name>javax.faces.VALIDATE_EMPTY_FIELDS</param-name>
    <param-value>true</param-value>
  </context-param>
  <context-param>
    <param-name>oracle.adf.view.rich.geometry.DEFAULT_DIMENSIONS</param-name>
    <param-value>auto</param-value>
  </context-param>
  <context-param>
    <param-name>oracle.adf.view.rich.SYNCROWS</param-name>
    <param-value>enable</param-value>
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  <context-param>
    <param-name>javax.faces.FACELETS_SKIP_COMMENTS</param-name>
    <param-value>true</param-value>
  </context-param>
  <context-param>
    <param-name>javax.faces.FACELETS_DECORATORS</param-name>
    <param-value>oracle.adfinternal.view.faces.facelets.rich.AdfTagDecorator</param-value>
  </context-param>
  <context-param>
    <param-name>javax.faces.FACELETS_RESOURCE_RESOLVER</param-name>
    <param-value>oracle.adfinternal.view.faces.facelets.rich.AdfFaceletsResourceResolver</param-value>
  </context-param>
  <context-param>
    <param-name>javax.faces.FACELETS_VIEW_MAPPINGS</param-name>
    <param-value>*.jsf;*.xhtml</param-value>
  </context-param>
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    <mime-type>application/x-shockwave-flash</mime-type>
  </mime-mapping>
  <mime-mapping>
    <extension>amf</extension>
    <mime-type>application/x-amf</mime-type>
  </mime-mapping>
  <listener>
    <listener-class>oracle.adf.mbean.share.config.ADFConfigLifeCycleCallBack</listener-class>
  </listener>
  <listener>
    <listener-class>oracle.adf.mbean.share.connection.ADFConnectionLifeCycleCallBack</listener-class>
  </listener>
  <listener>
    <listener-class>oracle.bc4j.mbean.BC4JConfigLifeCycleCallBack</listener-class>
  </listener>
</web-app>

## File: ListViewExample/ViewController/src/META-INF/adf-settings.xml

<?xml version="1.0" encoding="UTF-8" ?>
<adf-settings xmlns="http://xmlns.oracle.com/adf/settings"></adf-settings>

## File: ListViewExample/ViewController/src/view/ListViewBean.java

package view;

import javax.faces.application.FacesMessage;
import javax.faces.context.FacesContext;
import javax.faces.event.ValueChangeEvent;

public class ListViewBean {

  public ListViewBean() {
  }

  public void ratingChanged(ValueChangeEvent valueChangeEvent) {
    if (!valueChangeEvent.getComponent().getAttributes().containsKey("customId")) {
      showMessage("I have no property called 'customId'.");
    } else {
      String id = valueChangeEvent.getComponent().getAttributes().get("customId").toString();
      StringBuilder strbu = new StringBuilder();
      strbu.append("I am No. " + id + " ");
      strbu.append("My id is " + valueChangeEvent.getComponent().getAttributes().get("id").toString());
      showMessage(strbu.toString());

      /**
       * Now we can access the row with the specified employeeId to change its rating
       * and commit this
       */
    }
  }

  public String showMessage(String string) {
    String messageText = string;
    FacesMessage fm = new FacesMessage(messageText);
    fm.setSeverity(FacesMessage.SEVERITY_INFO);
    FacesContext context = FacesContext.getCurrentInstance();
    context.addMessage(null, fm);
    return null;
  }
}

## File: ListViewExample/ViewController/ViewController.jpr

<?xml version = '1.0' encoding = 'UTF-8'?>
<jpr:project xmlns:jpr="http://xmlns.oracle.com/ide/project">
   <hash n="component-versions">
      <value n="oracle.adfdt.controller.adfc.source.migration.AdfControllerSchemaMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdt.controller.common.migrator.ProjectMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdt.controller.jsf2.diagram.migrate.JsfNodeMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.adfdt.controller.migrate.TrinidadDatabindingsProjectMigrator" v="11.1.2.0.0"/>
      <value n="oracle.adfdtinternal.dvt.datapresdt.migration.DVTDataMapMigrator" v="11.1.1.1.0.3"/>
      <value n="oracle.adfdtinternal.dvt.datapresdt.migration.DVTWebAppConfigurationMigrator" v="12.1.3.0.0"/>
      <value n="oracle.adfdtinternal.model.ide.migration.ProjectMigrator" v="11.1.1.1.0.11.1.1"/>
      <value n="oracle.adfdtinternal.model.ide.security.wizard.FormPageMigrator" v="11.1.1.0.0"/>
      <value n="oracle.adfdtinternal.model.ide.security.wizard.JpsFilterMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdtinternal.model.ide.xmled.migration.ADFNodeMigrator" v="11.1.1.1.0.5"/>
      <value n="oracle.adfdtinternal.model.ide.xmled.migration.PageDefinitionParameterValueMigrator" v="11.1.1.1.0.5"/>
      <value n="oracle.adfdtinternal.model.ide.xmled.migration.WebXmlMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdtinternal.view.common.migration.wizards.MigrationHelper" v="11.1.1.1.0.3"/>
      <value n="oracle.adfdtinternal.view.rich.binding.migration.JarResourceMigrator" v="11.1.1.1.0"/>
      <value n="oracle.adfdtinternal.view.rich.migration.ComponentIdNodeMigratorHelper" v="11.1.1.1.0.01"/>
      <value n="oracle.adfdtinternal.view.rich.migration.FacesLibraryVersionMigrator" v="11.1.1.1.0.1"/>
      <value n="oracle.ide.model.Project" v="12.1.3.0.0"/>
      <value n="oracle.ide.model.ResourcePathsMigrator" v="11.1.1.1.0"/>
      <value n="oracle.ideimpl.model.TechnologyScopeUpdateMigrator" v="11.1.2.0.0.5"/>
      <value n="oracle.jbo.dt.jclient.migrator.JCProjectMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jbo.dt.jdevx.deployment.JbdProjectMigrator" v="11.1.2.0.0"/>
      <value n="oracle.jbo.dt.jdevx.ui.appnav.APAdfConfigMigrator" v="11.1.2.0.0"/>
      <value n="oracle.jbo.dt.jdevx.ui.appnav.APProjectMigrator" v="11.1.1.0.1.5"/>
      <value n="oracle.jbo.dt.migrate.ResourceBundlePathMigrator" v="11.1.1.0.1.5"/>
      <value n="oracle.jbo.dt.migration.ServiceInterfaceMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdeveloper.dbmodeler.Migration" v="12.1.1.0.0"/>
      <value n="oracle.jdeveloper.ejb.EjbMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdeveloper.library.ProjectLibraryMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdeveloper.model.OutputDirectoryMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdevimpl.deploy.jps.JpsDataMigrator" v="11.1.1.1.0"/>
      <value n="oracle.jdevimpl.deploy.migrators.DeploymentMigrator" v="12.1.2.0.1"/>
      <value n="oracle.jdevimpl.jsp.JspMigrator" v="11.1.1"/>
      <value n="oracle.jdevimpl.offlinedb.migration.OfflineDBProjectMigrator" v="12.1.1.0.0"/>
      <value n="oracle.jdevimpl.resourcebundle.XliffAddin$XliffMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.jdevimpl.webapp.jsp.libraries.JspLibraryMigrator" v="11.1.1.1.4"/>
      <value n="oracle.jdevimpl.webapp.jsp.taglibraries.trinidad.migration.TrinidadLibraryVersionMigrator" v="11.1.1.1.0.1"/>
      <value n="oracle.jdevimpl.webapp.WebAppContentSetNodeMigratorHelper" v="11.1.1"/>
      <value n="oracle.jdevimpl.webapp.WebAppProjectNodeMigratorHelper" v="12.1.2.0.0"/>
      <value n="oracle.jdevimpl.webservices.rest.migration.RestLibraryMigrator" v="12.1.1.0.0"/>
      <value n="oracle.jdevimpl.webservices.rest.migration.RestPathMigrator" v="11.1.2.0.0"/>
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      <value n="oracle.jdevimpl.xml.wl.WeblogicMigratorHelper" v="11.1.1.1.0"/>
      <value n="oracle.modeler.bmmigrate.management.Migration" v="11.1.1.1.0"/>
      <value n="oracle.toplink.workbench.addin.migration.PersistenceProjectMigrator" v="11.1.1.1.0"/>
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      <string v="oracle.jdeveloper.model.PathsConfiguration/javaContentSet"/>
      <string v="oracle.ide.model.ResourcePaths/resourcesContentSet"/>
      <string v="oracle.jdeveloper.offlinedb.model.OfflineDBProjectSettings/offlineDBContentSet"/>
      <string v="oracle.mds.internal.dt.ide.MDSLibraryCustCSProvider/mdsContentSet"/>
      <string v="oracle.mds.internal.dt.ide.MDSADFLibVirtualNodeCSProvider/mdsLibVirtualNodeContentSet"/>
      <string v="oracle.adfdtinternal.model.ide.settings.ADFMSettings/adfmContentSet"/>
      <string v="oracle.bm.commonIde.data.project.ModelerProjectSettings/modelersContentSet"/>
      <string v="oracle.toplink.workbench.addin/toplinkContentSet"/>
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               <url n="sourceOwnerURL" path="../ListViewExample.jws"/>
               <url n="sourceURL" path="../Model/Model.jpr"/>
            </hash>
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         </hash>
      </list>
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   <hash n="oracle.ide.model.TechnologyScopeConfiguration">
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         <string v="ADFc"/>
         <string v="ADFm"/>
         <string v="JSF"/>
         <string v="JSP"/>
         <string v="Java"/>
         <string v="TRINIDAD"/>
         <string v="XML"/>
      </list>
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               <value n="autoInclude" v="true"/>
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   <hash n="oracle.jdevimpl.webapp.facelets.libraries.ProjectFaceletsTagLibraries">
      <list n="facelets-tag-libraries">
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            <hash n="baseLibrary">
               <value n="name" v="JSF Core"/>
               <value n="version" v="2.1"/>
            </hash>
            <value n="name" v="JSF Core"/>
            <value n="taglibURL" v="@oracle.home@../oracle_common/modules/oracle.jsf_2.1/jsf-impl.jar!/com/sun/faces/metadata/taglib/facelets_jsf_core.taglib.xml"/>
            <value n="URI" v="http://java.sun.com/jsf/core"/>
            <value n="version" v="2.1"/>
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               <value n="version" v="2.1"/>
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