# Lab 5: Create a Business Data Catalog

#### Objectives

After completing this lab, you will be able to:

* Create a Business Data Catalog
* Create an Office 2007 Application from a Business Data Catalog metadata xml file

#### Prerequisites

Before working on this lab, you must have:

* Labs 1 and 2 must be completed

#### Scenario

In this lab you will learn the major components of a Business Data Catalog. You will build a metadata file (Exercises 1 - 4) that would, in normal circumstances, be used to create an application in the SharePoint Service Provider. The file you will create in exercise 1 to 4 will fail with Beta 2. Exercise 5 will use a valid Beta 2 Technical Refresh metadata file which contains the same components you have built during the exercises 1 to 4 but will contain specific data for this version.

##### Estimated time to complete this lab: 45 minutes

### Exercise 1 Build and Register Metadata – Connect to AdventureWorks Database

You will build the metadata file that will connect SharePoint Server 2007 to the SQL Server 2005 AdventureWorksDW database. This metadata file not only includes metadata that will tell SharePoint Server how and what to connect to but also which data to extract and expose from that source.

* A Complete workable copy of the metadata file (BDCAdventureWorksDWSQL2005Beta2TRVa.xml) can be found in the C:\HOL\BDC\Reference folder.

1. Open Microsoft Visual Studio 2005 from the desktop shortcut.
2. Select File, New File, Select XML file
3. Click **Open** and make sure XMLFile1.xml **is the active tab**
4. Delete all the default text and save the empty file to C:\HOL\BDC\Office2007AWBDCDW.xml
5. Right-click in the window (xml document surface) and choose Insert Snippet…
6. From the selection box, choose “BDC > LOB XML”
7. Select File, Save to save the file

### Exercise 2 Define Entities, Methods, and Filters

You will define Entities, Methods, and Filters to be used in this Business Data Catalog.

1. Highlight the line <!—BDC Reseller Entities here 🡪
2. Right-click and choose Insert Snippet…
3. Choose “BDC > Reseller Entity”
4. Save your changes

### Exercise 3 Define Actions

You will define an Action that will open up a browser and search for the product name using SharePoint Server 2007 Search.

1. Highlight the line <!—BDC Reseller Actions here 🡪
2. Right-click and choose Insert Snippet…
3. Choose “BDC > Reseller Actions”
4. Save your updates

### Exercise 4 Define the IDEnumerator

To enable business data search, you need to define a **SpecificFinder** and a special type of **MethodInstance** called **IDEnumerator** in your Metadata.

1. Highlight the line <!—BDC Reseller IDEnumerator Here 🡪
2. Right-click and choose Insert Snippet…
3. Choose “BDC > ResellerIDEnumarator”
4. Select File and save your updates
5. Close Visual Studio 2005

### Exercise 5 Register AdventureWorksDW database in Business Data Catalog

In this exercise, you will add the AdventureWorksDW database as a SharePoint Server 2007’s Business Data Catalog application. Once you added the AdventureWorksDW, you can use its data throughout the portal – in lists, web parts, search, User profiles, and Field Types. You’ll explore some of these features and capabilities in later exercises.

**Note:** In a future version of this workshop, all Snippets in this lab will be updated to producing a valid and workable version of the BDC file as found in this exercise.

* Create a Business Data Catalog Application and set permissions on its entities.

1. Open **SharePoint 3.0 Central Administration**
2. Select **Application Management**
3. In the **Office SharePoint Server Shared Services** section, select **Create or Configure this Farm’s Shared Services**.
4. Select **O12ServerSSP1 (default)** to access the Shared Services Provider (SSP).
5. In the **Business Data Catalog** section, click **Import application definition** to open the Import Application Definition page.
6. In the **Import Application Definition** page, browse to “C:\HOL\BDC\Reference\BDCAdventureWorksDWSQL2005Beta2TRVa.xml” and click **Import**.

**Keep other options as is!**

**Note:** This file works with Beta 2 and Beta 2 Technical Refresh!

1. Wait for the Import to complete – this will take 1 – 2 minutes to complete. Once the import has completed, the Application Information page for the new Application will be displayed.
2. Hover over **Reseller** and choose **Manage Permissions** from the dropdown menu. You will be able to add user access to this Entity from the SharePoint perspective.
3. On the **Manage Permission** page, choose **Add Users/Groups**
4. On the **Add Users/Groups** page, use the following values:
   1. **Users/Groups:** NT Authority\Authenticated Users (Check name)
   2. **Choose Permissions:** Execute
5. Click **Save**
6. Repeat steps 8, 9, 10, and 11 for the other entities (Product, Product Category, and Product Subcategory)

You have now registered and secured the AdventureWorksDW Business Data Catalog application and exposed some of its data into SharePoint Server 2007.

In Lab 6 you will use the data now available via this Business Data Catalog.