

IBM WebSphere Commerce V7 – Lab exercise

Data load utility

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What this exercise is about

The objective of this lab is to provide you with an understanding of how to use the new WebSphere Commerce data load utility to load and update catalog, price and inventory data.

This lab is provided **AS-IS**, with no formal IBM support.

Lab requirements

Before you begin this lab, ensure your system meets these requirements:

- WebSphere Commerce V7 **runtime** is installed
- DB2 database is used by WebSphere Commerce
- Madisons starter store has been published
- Inventory system used by Madisons starter store is **non-ATP**

Note: If the inventory system is not non-ATP, you can change the store's inventory system to non-ATP by running this SQL command in the DB2 Command Line Processor:

```
CONNECT TO <DB_name> USER <DB_user_ID> USING <DB_user_pwd>
```

```
UPDATE STORE SET INVENTORYSYSTEM=-2 WHERE STORE_ID in (SELECT  
STOREENT.STOREENT_ID FROM STOREENT WHERE STOREENT.IDENTIFIER ='Madisons')
```

What you should be able to do

At the end of this lab you should be able to:

- Use WebSphere Commerce data load utility to load and update catalog, price, and inventory data.
- Use Management Center Catalog tools to view and manage the data loaded.

Introduction

The WebSphere Commerce data load utility is new in WebSphere Commerce Version 7. The purpose of this utility is to provide an easy to use, fast utility to load data into the WebSphere Commerce database. It offers improvements for some of the difficulties experienced with the mass load utility.

Exercise instructions

The instructions in this lab are Windows[®] operating-system specific. The directory locations and variables are specified in the lab instructions using symbolic references. You will see some screen captures containing the specific values for these variables. When you do this lab, you should replace them with your own values.

Reference variable	Description	Value
<WAS_HOME>	WebSphere Application Server installation directory	
<WAS_Profile_name>	WebSphere Application Server profile name for WebSphere Commerce instance. This name should be the same as your WebSphere Commerce instance name.	
<WCS_HOME>	WebSphere Commerce V7 runtime installation directory	
<Hostname>	Computer host name	
<DB_user_ID>	Database user ID for your WebSphere Commerce instance. This ID should be the same as your database schema's name.	
<DB_user_PWD>	Password of <DB_user_ID>	
<DB_name>	Database name for your WebSphere Commerce instance	
<SiteAdmin_ID>	Site administrator ID. This is not an operating system ID	
<SiteAdmin_PWD>	Site administrator password	

Part 1: Update data load environment settings

In this part, you will setup the data load environment by updating the wc-dataload-env.xml file.

- ___ 1. Encrypt the database password.
 - ___ a. Open a command window and navigate to :


```
<WCS_HOME>\bin
```
 - ___ b. Run command :


```
wcs_encrypt <DB_user_PWD>
```

```

c:\ Command Prompt
C:\IBM\WebSphere\CommerceServer70\bin>wcs_encrypt db2adminb3ta
IBM*
Licensed Materials - Property of IBM
5697-A16
(C) Copyrights by IBM and by other(s) 1978, 1997, 2006. All Rights Reserved.
* Trademark of International Business Machines Corp.
ASCII encrypted string : Szv3RSJ0AYIVC0AE0UqvNQ==
HEX encrypted string : 537A763352534A3041594956433041454F5571764E513D3D
C:\IBM\WebSphere\CommerceServer70\bin>_
  
```

- ___ c. Copy the ASCII encrypted string

Note: your encrypted string should be different from the one in the screen capture if your database user's password is not db2adminb3ta.

- ___ 2. Open wc-dataload-env.xml under <WCS_HOME>\samples\DataLoad\Catalog. This XML file defines all environment settings for data load, including business context data (store identifier, catalog identifier, language) and database settings.

- ___ a. Comment out the code under <!-- database setting for derby in Toolkit -->. This lab is for DB2 database only

```

<!--
<_config:Database type="derby" name="..\db\mall" schema="APP"/>
-->
  
```

- ___ b. Remove the comment for the code under : <!-- database setting for AIX/DB2 server -->

```
<_config:Database type="db2" name="<database name>" user="<user>"  
password="<password>" server="<server>" port="<port>" schema="<schema>" />
```

___ c. You need to replace these attribute values with your own values:

- 1) Replace <database name> with your own <DB_name>.
- 2) Replace <user> with your own database user ID <DB_user_ID>.
- 3) Replace <password> with the ASCII encrypted string you copied in step 1c.
- 4) Replace <server> with **localhost**. This lab assumes your DB2 server and WebSphere Commerce are installed on the same machine.
- 5) Verify 50000 is your own database <DB_name> TCP/IP port. If not, replace it with the correct port number.
- 6) Replace <schema> with your own database schema name. This schema name should be the same as your database user ID <DB_user_ID>.

After you replace all of the attribute values, your code should look similar to this:

```
<_config:Database type="db2" name="mall" user="db2admin"  
password="Szv3RSJ0AYIVC0AEOUqvNQ==" server="localhost" port="50000" schema="db2admin"  
/>
```

___ 3. Review the business context data to make sure they match your environment.

```
<_config:BusinessContext storeIdentifier="Madisons"  
catalogIdentifier="Madisons" languageId="-1" currency="USD">
```

___ 4. To verify the **storeIdentifier** and **catalogIdentifier**, you can check the values in the database:

- ___ a. Type 'db2cmd' in the command window. A new DB2 CLP window will be opened.
- ___ b. Type 'db2' in DB2 CLP window.
- ___ c. Type this command to connect to the database:

```
connect to <DB_name> user <DB_user_ID> using <DB_user_PWD>
```

```
CA\ DB2 CLP - DB2COPY1 - C:\DB29.5\BIN\db2setcp.bat DB2SETCP.BAT DB2.EXE
(c) Copyright IBM Corporation 1993,2007
Command Line Processor for DB2 Client 9.5.4

You can issue database manager commands and SQL statements from the command
prompt. For example:
  db2 => connect to sample
  db2 => bind sample.bnd

For general help, type: ?.
For command help, type: ? command, where command can be
the first few keywords of a database manager command. For example:
? CATALOG DATABASE for help on the CATALOG DATABASE command
? CATALOG          for help on all of the CATALOG commands.

To exit db2 interactive mode, type QUIT at the command prompt. Outside
interactive mode, all commands must be prefixed with 'db2'.
To list the current command option settings, type LIST COMMAND OPTIONS.

For more detailed help, refer to the Online Reference Manual.

db2 => connect to mall user db2admin using db2adminb3ta

  Database Connection Information

Database server      = DB2/NT 9.5.4
SQL authorization ID = DB2ADMIN
Local database alias = MALL

db2 => _
```

__ d. Issue this SQL query to find the store identifiers.

```
select identifier from storeent
```

__ e. Issue this SQL query to find the catalog identifiers.

```
select identifier from catalog
```

TIP: The store identifier (like "Madisons") usually is the same as the catalog identifier.

Part 2: Start Management Center

In this part, you will start Management Center and review the catalog before the data load. Later on, you can use Management Center to review the data which was loaded.

- ___ 1. Start your WebSphere Commerce Server if it is not started yet.
 - ___ a. In a command window, change directory to <WAS_HOME>/profiles/<WAS_Profile_name>/bin/.
 - ___ b. Run the command:

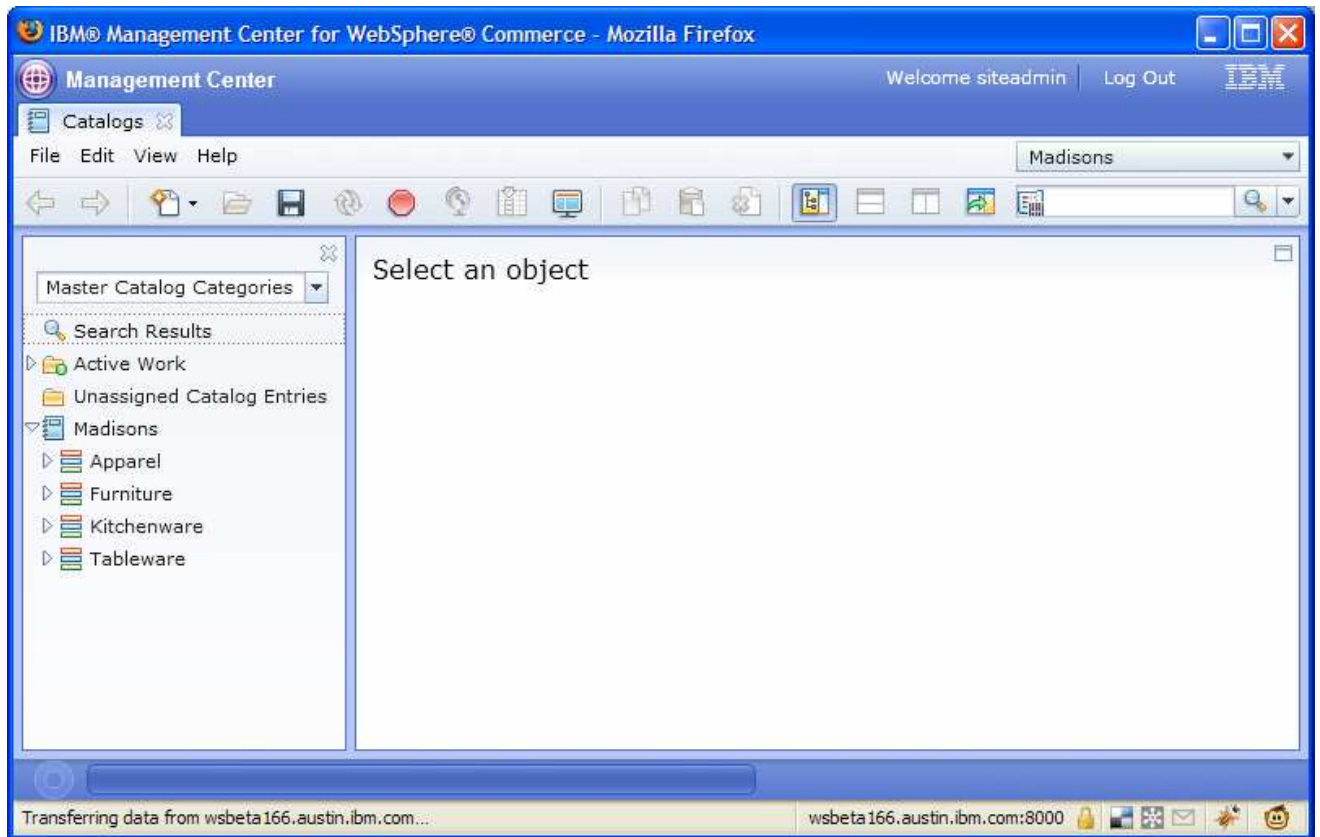
```
startServer.bat server1
```
- ___ 2. Open a Management Center supported browser and type the URL:

`https://<Hostname>:8000/lobtools/cmc/ManagementCenter`

- ___ 3. Login using the site administrator ID <SiteAdmin_ID> and password <SiteAdmin_PWD>.
- ___ 4. Select the Catalogs tool.



- ___ 5. Expand the catalog for the Madisons store and make sure there are no catalog groups called "Mens Fashion" or "Womens Fashion".



6. Keep the Management Center window open because you will use it to verify the data loaded in later steps.

NOTE: If your session times out, you may get an error when you reload the Management Center. In this case, you can just log out and login again.

Part 3: Initial load

In this part, you will first review the data load configuration files and then run data load to insert catalog groups and items (SKUs) for the first time.

This loader will create the corresponding products, so there is no need to load the products separately.

Besides that this loader also loads:

- Defining attributes, allowed values and actual value assigned to item (Color, Size)
- List price and default offer price

- _____ 1. Open `wc-dataload.xml` under directory `<WCS_HOME>/samples/DataLoad/Catalog/IntegrateScenario`. This is the main data load configuration file which is used for defining the data load flow.

This data load configuration file has many load items.

First it uses the loader defined in `wc-loader-catalog-group.xml` to load catalog groups from file `CatalogGroup.csv`.

Note: `wc-loader-catalog-group.xml` and `CatalogGroup.csv` both have the path `.. /`. This means both of these files are located in the parent folder of the `wc-dataload.xml`.

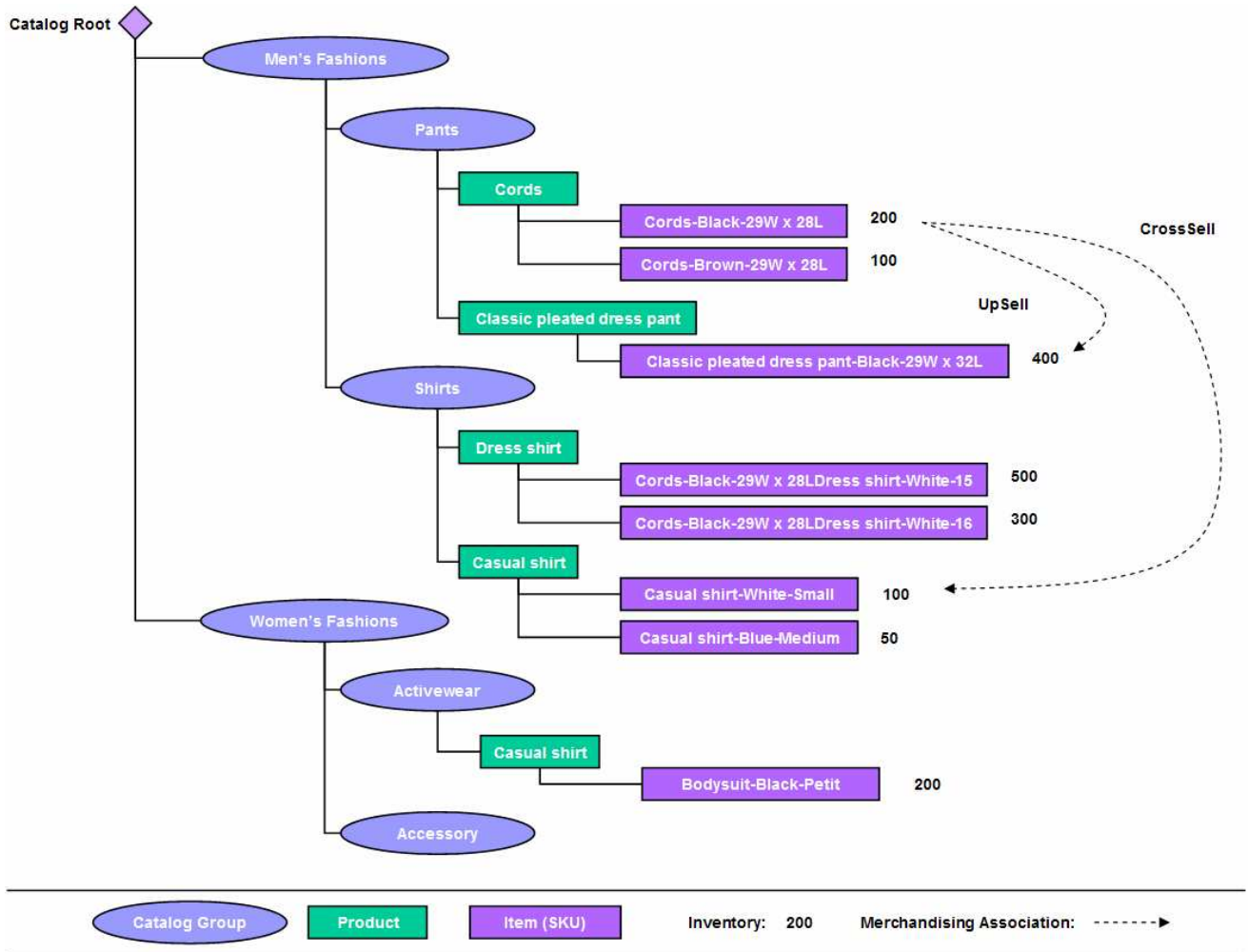
The other files will load the catalog entries, their attributes and offer prices.

- _____ 2. The file `wc-dataload.xml` also defines the data load environment configuration file it will use. In this case, the `wc-dataload-env.xml` file under the parent folder is used.

```
<_config:DataLoadEnvironment configFile="../wc-dataload-env.xml" />
```

- _____ 3. Open the `CatalogGroups.csv` file under `<WCS_HOME>/samples/DataLoad/Catalog`. This file contains the catalog groups to be loaded. The first row of the file is the header. The name in the header is used for mapping to the loader configuration file. For example `GroupIdentifier` is mapped to the `GroupIdentifier` element in the `CatalogGroup` noun.

Following figure show the hierarchy of the sample data:



4. Open the file **wc-loader-catalog-group.xml** in the same directory. This is the loader configuration file, which is used for defining the mapping from CSV headers to the elements in the noun.

```

<_config:BusinessObjectBuilder
  className="com.ibm.commerce.foundation.data.load.businessobjectbuilder.BaseBusinessObjectBuilder"
  packageName="com.ibm.commerce.catalog.facade.datatypes.CatalogPackage"
  dataObjectType="CatalogGroupType" >
<_config:DataMapping>
  <_config:mapping
    xpath="CatalogGroupIdentifier/ExternalIdentifier/GroupIdentifier"
    value="GroupIdentifier" />

```

The attribute **dataObjectType** defines the noun used in the data load. In this case, you load the catalog group. The noun used is **CatalogGroupType**. The header **GroupIdentifier** in the CSV file is mapped to the **GroupIdentifier** element in **CatalogGroup** noun using XPath:

CatalogGroupIdentifier/ExternalIdentifier/GroupIdentifier

- ___ 5. Now it is time to do the data load. In the command window, navigate to <WCS_HOME>/bin and run this command:

```
dataload ..\samples\DataLoad\Catalog\IntegrateScenario\wc-dataload.xml
```

Note: You can also use an absolute path for the file. For example:

```
dataload C:\IBM\WebSphere\CommerceServer70\samples\DataLoad\Catalog\IntegrateScenario\wc-dataload.xml
```

If you see any errors while running this command, you can look at the log file for details:

```
<WCS_HOME>/logs/wc-dataload.log
```

- ___ 6. Verify the data is loaded into the database:
- ___ a. Go to the DB2 CLP window that you opened in Part 1 step 4.

- ___ b. Type this command:

```
select * from catgroup where identifier in ('Mens Fashions','Womens Fashions','Pants','Shirts','Activewear','Accessory')
```

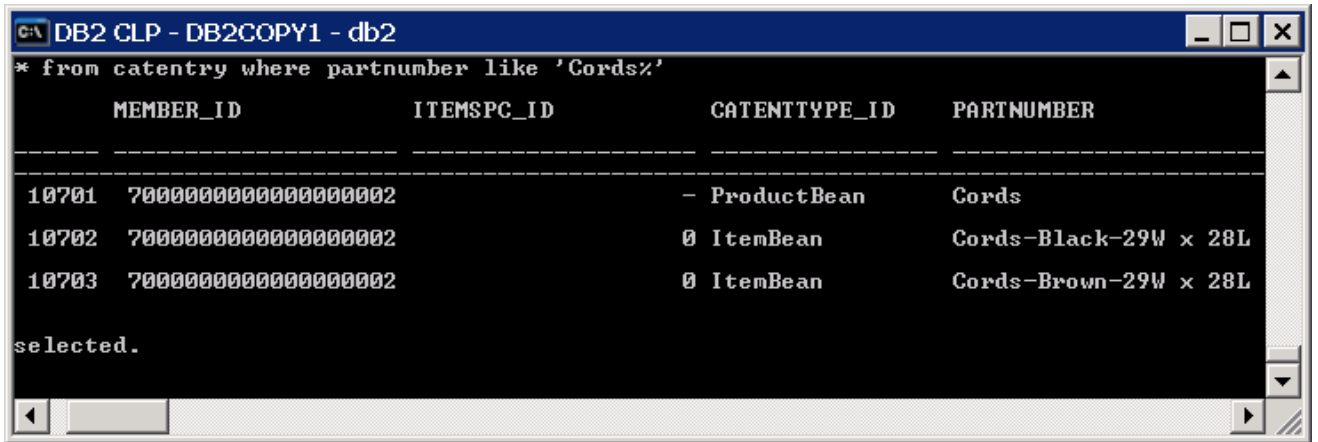
6 records should be returned. These are catalog groups loaded.

```
DB2 CLP - DB2COPY1 - db2
db2 => select * from catgroup where identifier in ('Mens Fashions','Womens Fashions','Pants','Shirts','Activewear','Accessory')
CATGROUP_ID      MEMBER_ID      IDENTIFIER
-----
10056  700000000000000002  Accessory
10055  700000000000000002  Activewear
10051  700000000000000002  Mens Fashions
10053  700000000000000002  Pants
10054  700000000000000002  Shirts
10052  700000000000000002  Womens Fashions
6 record(s) selected.
```

- ___ c. Issue this command:

```
select * from catentry where partnumber like 'Cords%'
```

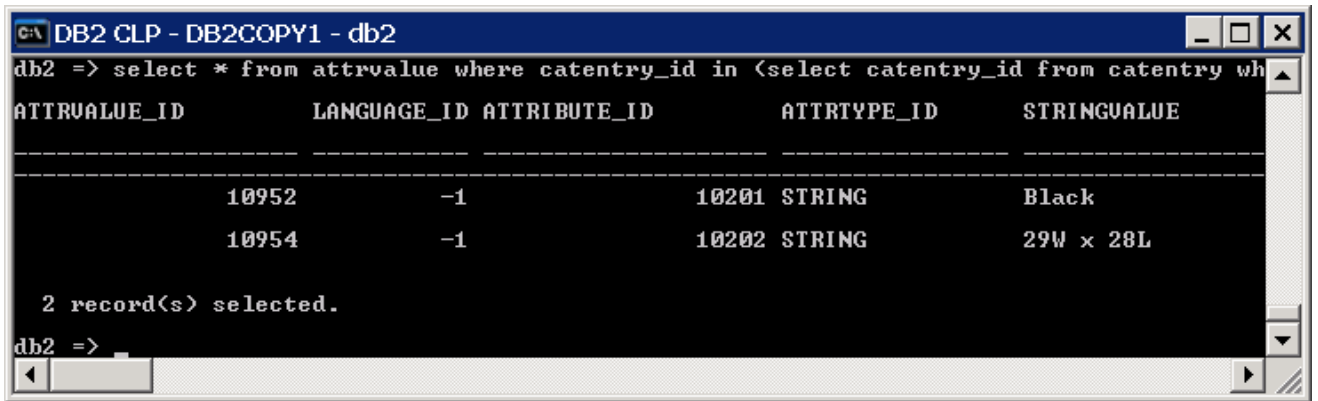
3 records should be returned. Two items are defined in the CSV file. The product is created automatically.



__ d. Issue this command:

```
select * from attrvalue where catentry_id in (select catentry_id from
catentry where partnumber = 'Cords-Black-29W x 28L')
```

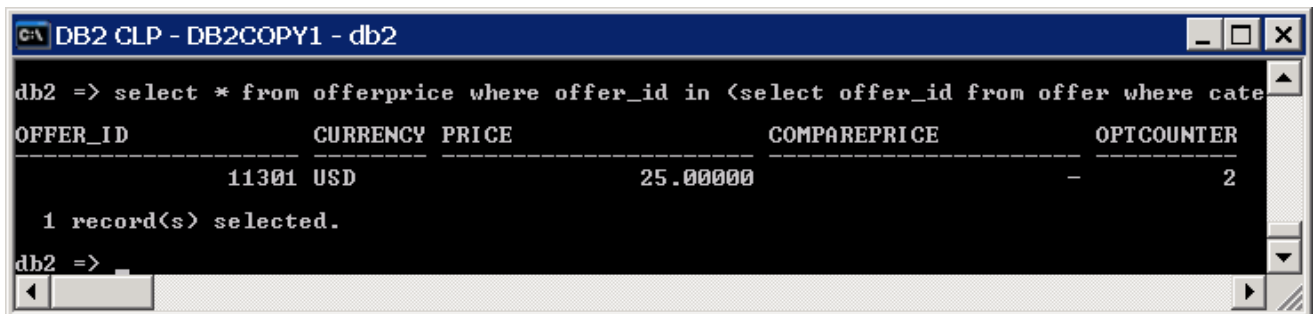
2 records should be returned. These are the defining attributes of this item (Size and Color).



__ e. Issue this command:

```
select * from offerprice where offer_id in (select offer_id from
offer where catentry_id = (select catentry_id from catentry where
partnumber = 'Cords-Black-29W x 28L'))
```

1 record should be returned. It is the default offer price for this item.

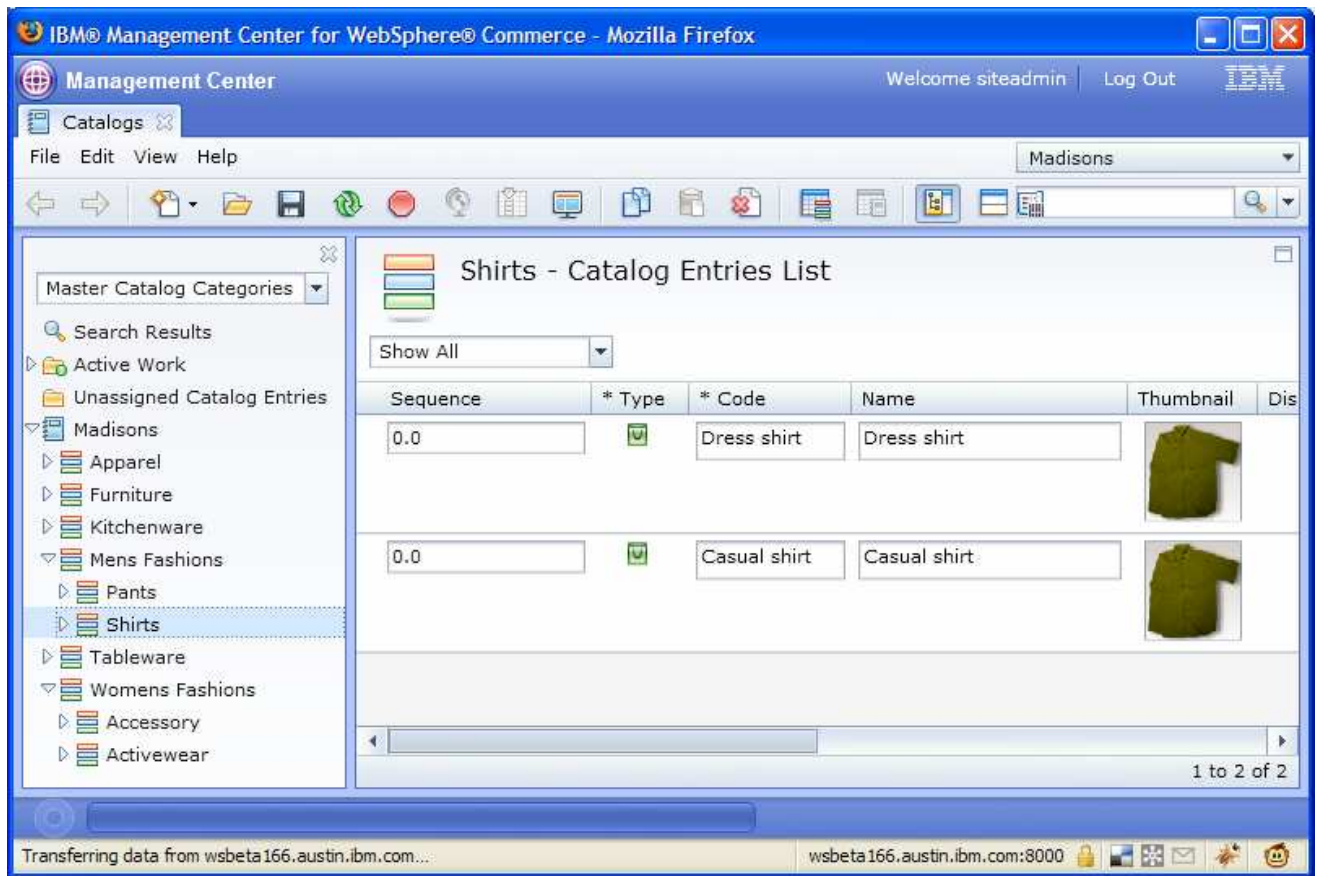


___ 7. Copy the image files for the catalog groups and catalog entries.

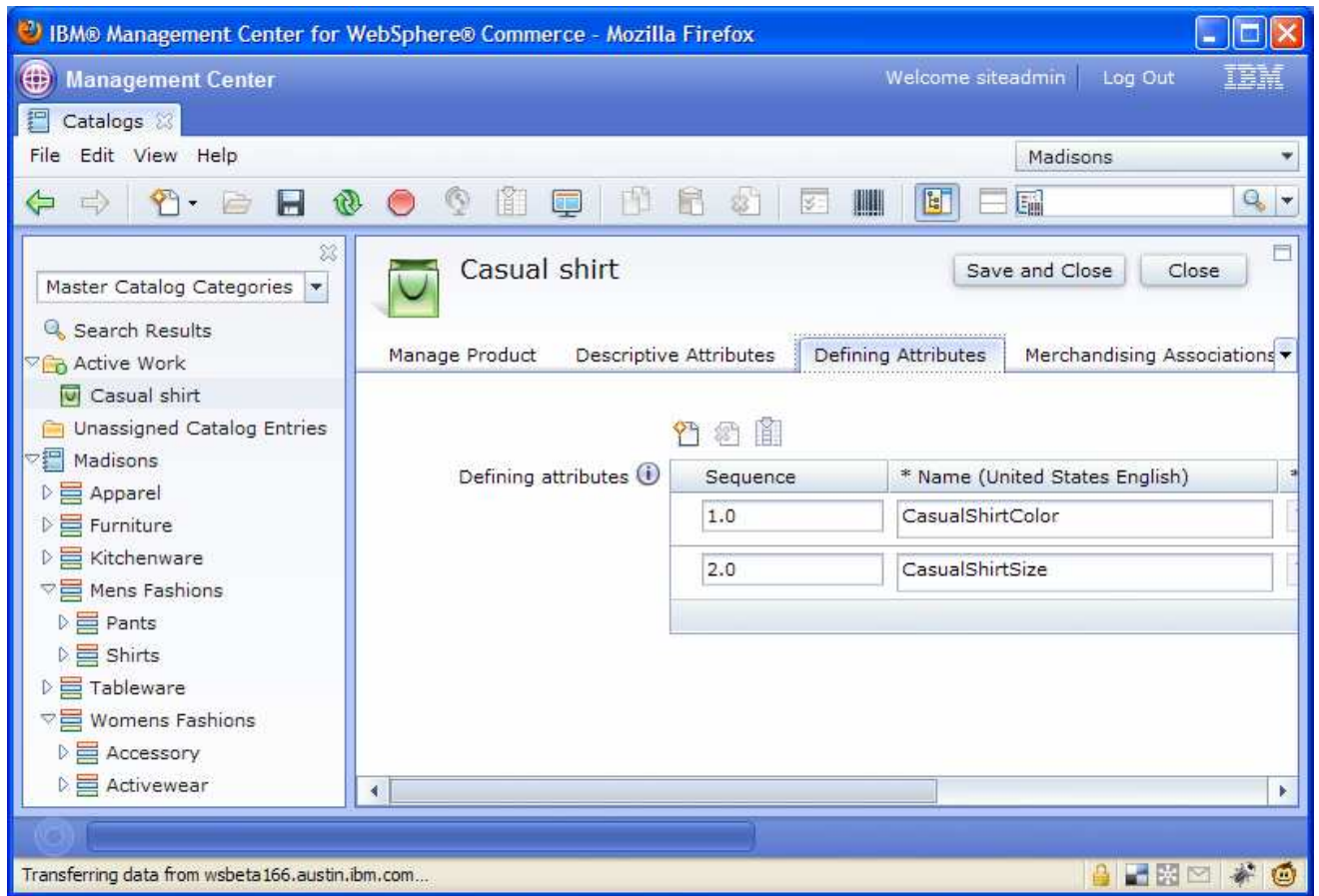
- ___ a. Navigate to the directory <WCS_HOME>\samples\catalogimport\
- ___ b. Extract the file **images.zip** into the directory where the Madisons store catalog images are located. For example, if your WebSphere Commerce instance name is demo, this directory should be

<WAS_HOME>\profiles\demo\installedApps\WC_demo_cell\WC_demo.ear\Stores.war\Madisons\images\catalog

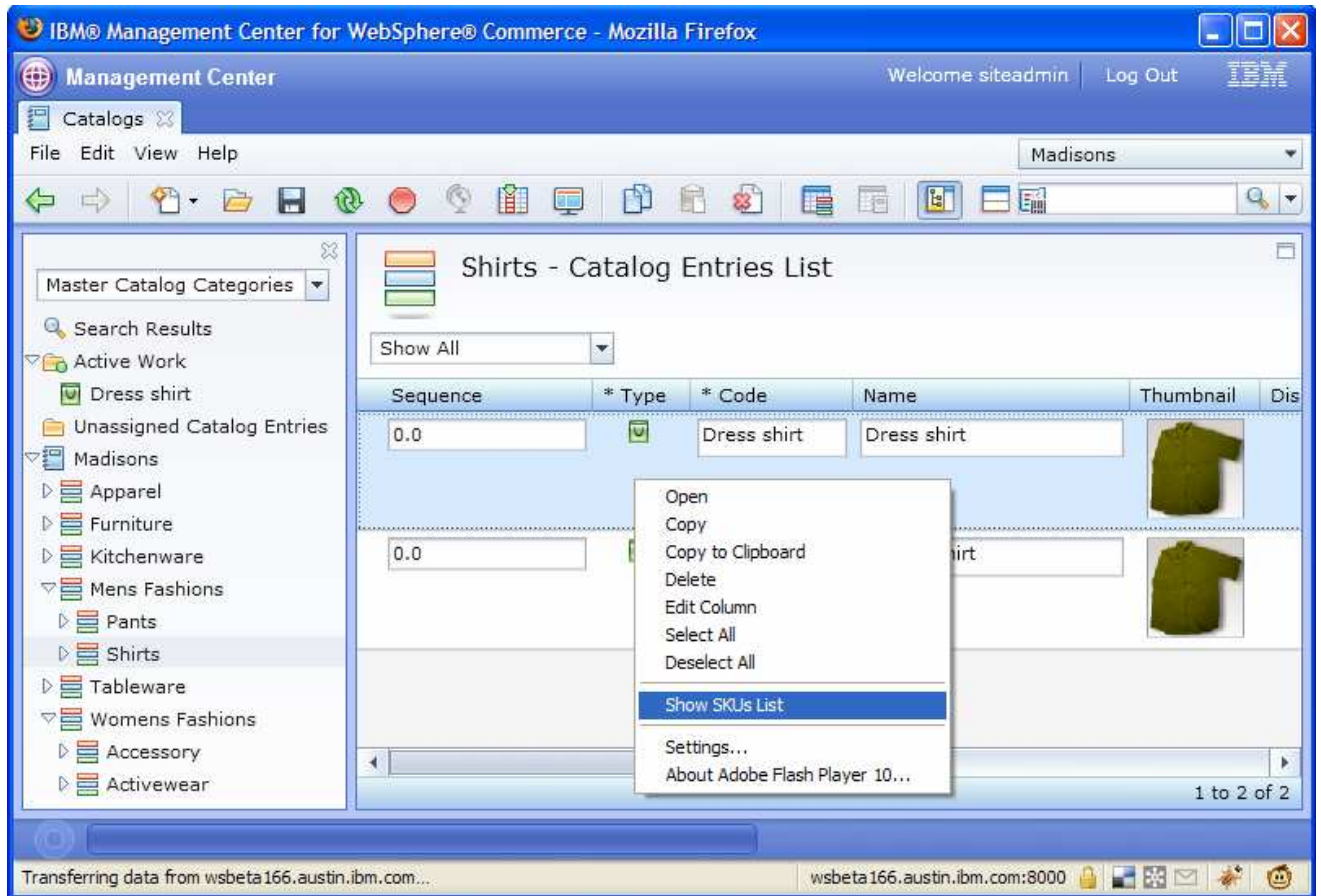
- ___ 8. Verify the catalog groups and catalog entries appear in the **Management Center** Catalogs tool:
 - ___ a. In the **Catalogs** tool, right click Madisons catalog and select "Reload". You may need to log in again if your session has expired.
 - ___ b. Browse the catalog groups and catalog entries loaded.



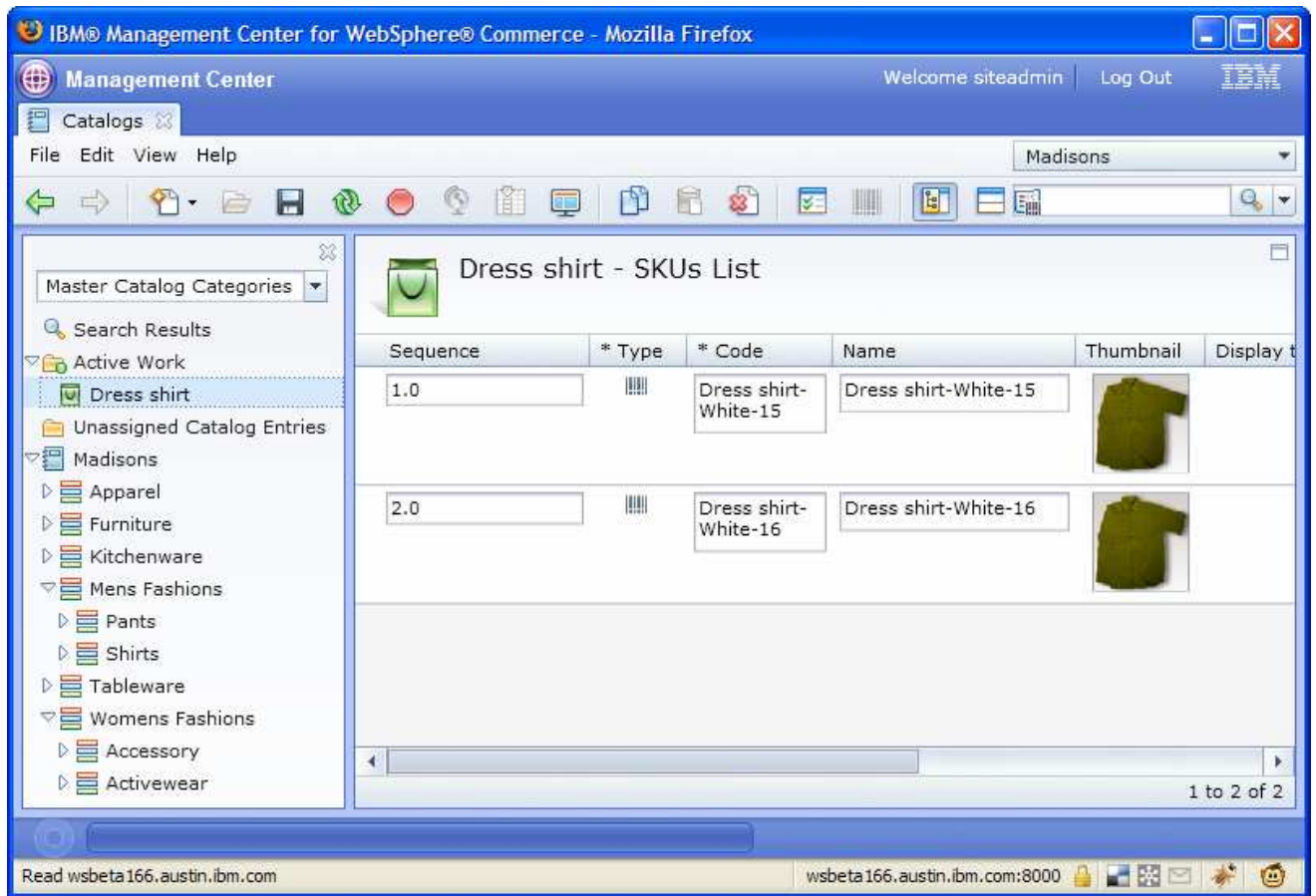
- ___ c. Open a product by double-clicking on it. Select the **Defining Attributes** tab. You can two defining attributes (Size and Color) have been created.



___ d. Right click a product and select **Show SKUs List** from the pop-up menu.



__ e. The SKUs for the product will be displayed.



___ f. Open a SKU by double-clicking it. Expand the Offer Price section. You can see that the list price and offer price are loaded.

The screenshot shows the IBM Management Center interface for WebSphere Commerce. The browser window title is "IBM® Management Center for WebSphere® Commerce - Mozilla Firefox". The page header includes "Management Center", "Welcome siteadmin", and "Log Out". The breadcrumb trail is "Catalogs > Madisons".

The main content area displays the product "Dress shirt-White-15" with a barcode icon. Below the product name are tabs for "Manage SKU", "Descriptive Attributes", "Defining attributes", and "Merchandising Associations". The "Pricing" section is expanded, showing the following data:

List price	* USD	BRL	CAD	CNY	EUR
	33.00				

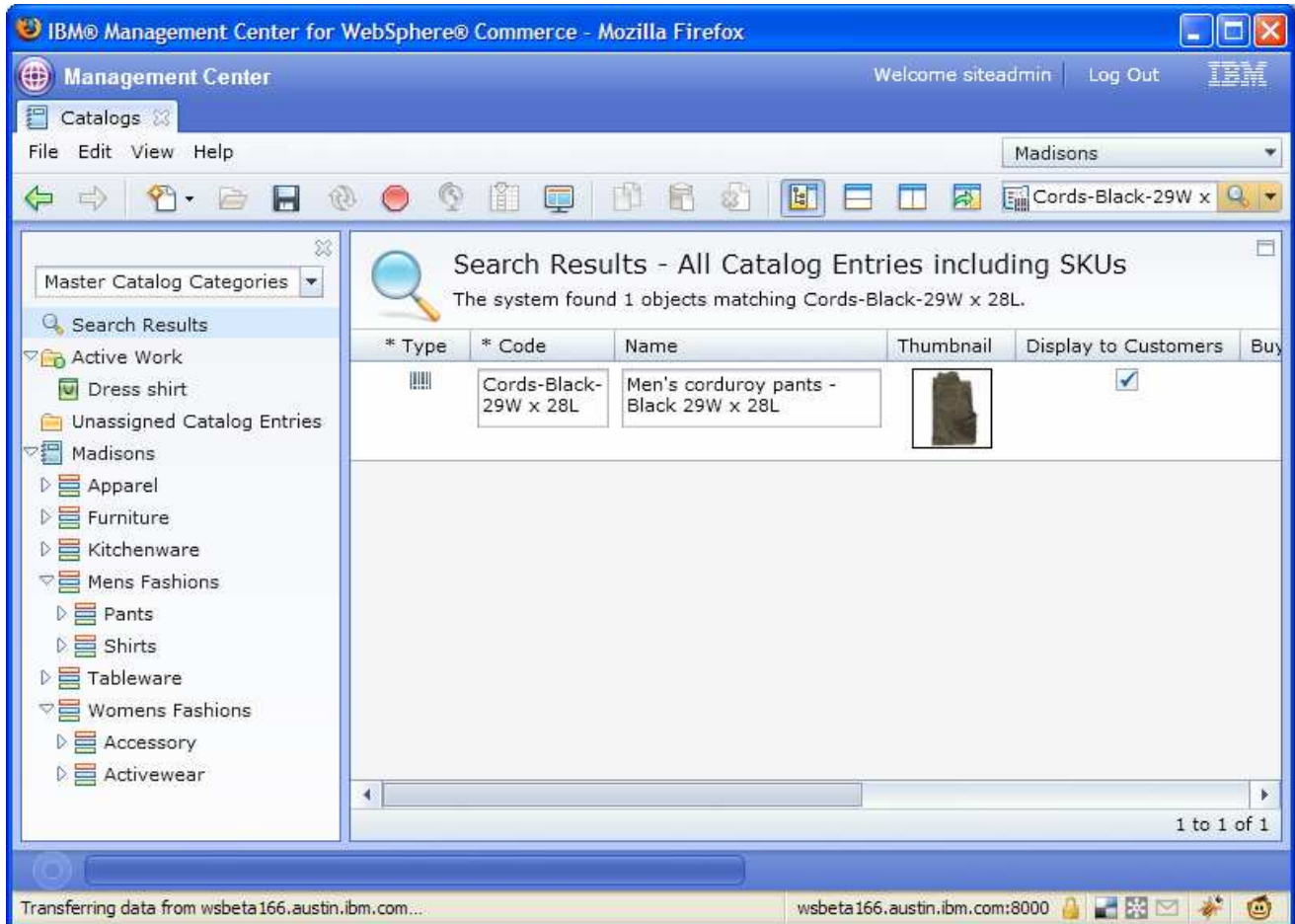
Offer price (Madisons)	Minimum Quantity	* USD	BRL	CAD
	1	28.00		

The left sidebar shows a tree view of "Master Catalog Categories" with "Active Work" expanded to "Dress shirt" and "Dress shirt-White-15". The bottom status bar indicates "Transferring data from wsbeta166.austin.ibm.com..." and "wsbeta166.austin.ibm.com:8000".

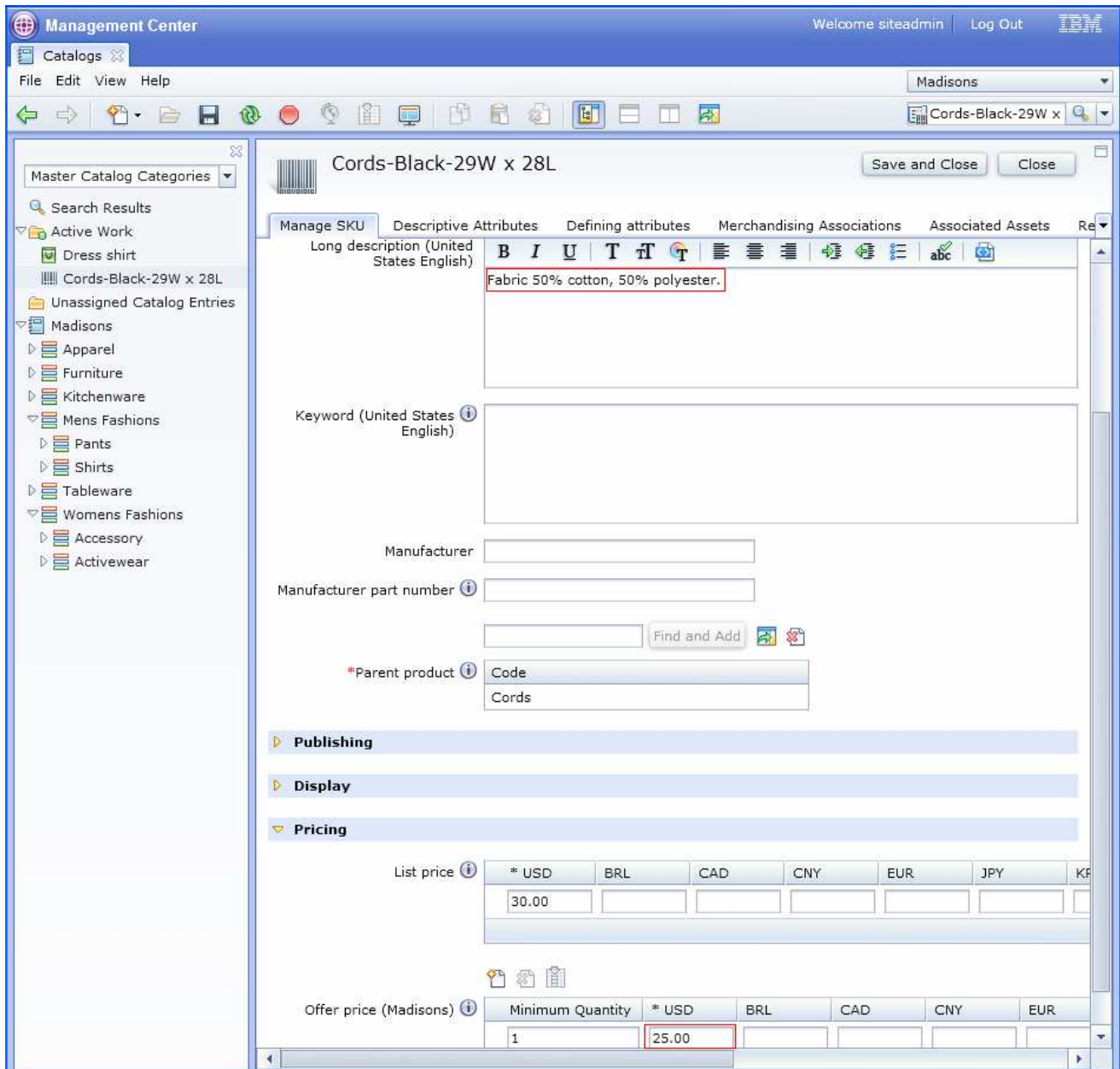
Part 4: Update load

In this part, you will try the update load. Update load means you make changes to the CSV file and run the data load again to upload the changes to the database.

1. In Catalogs tool, type **Cords-Black-29W x 28L** in quick search and press enter.



2. Open the resulting SKU in the property view.



___ 3. You want to change two things for this item. First, change the “Long Description”

From

Fabric 50% cotton, 50% polyester.

To:

Fabric 80% cotton, 20% polyester.

Second, change the “Offer Price”

From

25.00

To:

22.00

- ____ 4. Open **CordsWithAttributesPrice.csv** under <WCS_HOME>\samples\DataLoad\Catalog\IntegrateScenario. You can use a text editor, IBM Lotus Symphony or Excel to edit the CSV file. Make the changes to Price and LongDescription as shown below. Save the file.

A	B	C	D	E	F	G	H	I
PartNumber	ParentPartNumber	Sequence	ParentGroupIdentifier	ListPrice	Price	Name	ShortDesc	LongDescription
Cords-Black-29W x 28L	Cords	1	Pants	30	22	Men's corc	Men's corc	Fabric 80% cotton, 20% polyester.
Cords-Brown-29W x 28L	Cords	2	Pants	30	25	Men's corc	Men's corc	Fabric 50% cotton, 50% polyester.

- ____ 5. In the command window, navigate to <WCS_HOME>\bin and run this command:

```
dataload ..\samples\DataLoad\Catalog\IntegrateScenario\wc-dataload.xml
```

- ____ 6. In Management Center, reload "Cords-Black-29W x 28L" in the property view. You can see both the Long Description and Price are updated.

Management Center Welcome siteadmin Log Out IBM

Catalogs

File Edit View Help

Madisons

Cords-Black-29W x 28L

Master Catalog Categories

Search Results

Active Work

- Dress shirt
- Cords-Black-29W x 28L**
- Unassigned Catalogs

Madisons

- Apparel
- Furniture
- Kitchenware
- Mens Fashions
 - Pants
 - Shirts
- Tableware
- Womens Fashions
 - Accessory
 - Activewear

Manage SKU Descriptive Attributes Defining attributes Merchandising Associations Associated Assets Re...

Fabric 80% cotton, 20% polyester.

States (English)

Manufacturer:

Manufacturer part number:

Find and Add

*Parent product: Code
Cords

Publishing

Display

Pricing

List price: * USD BRL CAD CNY EUR JPY K...

30.00						
-------	--	--	--	--	--	--

Offer price (Madisons):

Minimum Quantity	* USD	BRL	CAD	CNY	EUR
1	22.00				

Part 5: Update inventory

In this part, you will learn how to update the inventory quantity for the items previously loaded.

1. In the command window, navigate to <WCS_HOME>\bin, and run this command:

```
dataload ..\samples\DataLoad\Catalog\IntegrateScenario\wc-dataload-nonATP-
inventory.xml
```

Note: You can also use an absolute path, for example:

```
dataload C:\IBM\WebSphere\CommerceServer70\samples\DataLoad\Catalog\IntegrateScenario\wc-
dataload-nonATP-inventory.xml
```

Check the log file <WCS_HOME>\logs\ wc-dataload.log if you see any errors.

2. Verify if data is loaded into the database.

- a. Issue this SQL query from a DB2 CLP window:

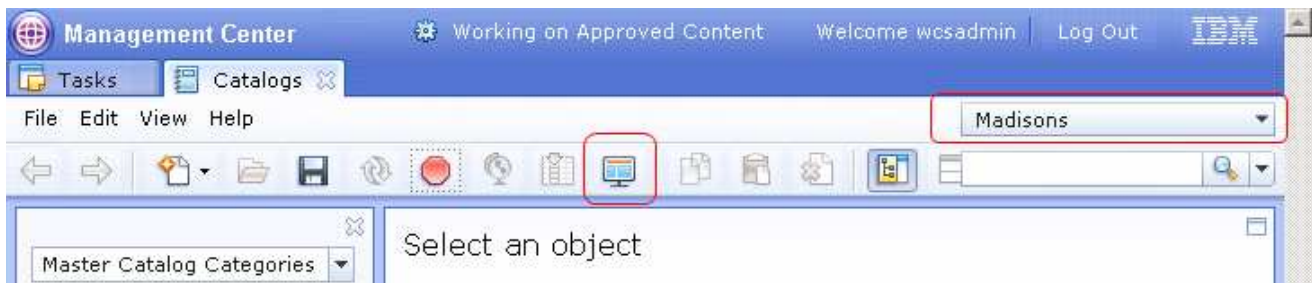
```
select * from inventory where catentry_id = (select catentry_id from
catentry where partnumber = 'Cords-Black-29W x 28L')
```

1 record should be returned. It is the inventory of this item.

```
db2 => select * from inventory where catentry_id = <select catentry_id from catentry where partnumber =
CATENTRY_ID          QUANTITY          PFMCENTER_ID STORE_ID  QUANTITYMEASURE  INVENTORYFLAGS
-----
          10702      +2.000000000000000E+002          10001      10001  C62
0
1 record(s) selected.
```

3. Verify the inventory by ordering the item from the Madisons store.

- a. In the Management Center Catalog tools, make sure the Madisons store is selected and click the “Store Preview” button.



- b. Copy the store URL shown in the Store Preview Options (Do not press enter or click “Launch Store Preview”)

Store Preview Options

Manage SKU | Descriptive Attributes | Defining attributes | Merchandising Associations | Ass

What store URL do you want to preview? (Default is store home page)

Store Address
http://aimcpvs/webapp/wcs/stores/servlet/StoreView?storeId=10001

Store Alias
Madisons

▶ Options

Launch Store Preview Cancel

__ c. Open a new browser window and paste the store URL. For example, the URL in the above screen capture:

http://aimcpvs/webapp/wcs/stores/servlet/StoreView?storeId=10001

__ d. Browse to the new **Men's Fashions and Pants** category.

__ e. Select **Cords** and click **Add to Cart**.

The screenshot shows the MADISONS website interface. At the top, there is a yellow header with the MADISONS logo and a search bar. Below the header is an orange navigation bar with categories: Furniture, Men's Fashions, Tableware, Women's Fashions, Kitchenware, and Apparel. A shopping cart summary shows 'Cart: 0 item(s) subtotal: \$0.00'. The main content area is titled 'Pants' and displays two product listings: 'Cords' priced at '\$22.00 to \$25.00' and 'Classic pleated dress pant' priced at '\$35.00'. Both listings have an 'Add to Cart' button. A mouse cursor is hovering over the 'Add to Cart' button for the 'Cords' product. On the right side, there is a 'Compare' section and an 'E-mail Newsletter' subscription box. The footer contains 'Customer Service' and 'Customer Support' links.

___ f. Select a Color and Size and click **Add to Cart**

The screenshot shows the MADISONS e-commerce website. At the top, there is a search bar and navigation links for Home, Shopping Cart, Advanced Search, Store Locator, and Sign In. A secondary navigation bar includes Furniture, Men's Fashions, Tableware, Women's Fashions, and See All. A shopping cart icon indicates 0 items with a subtotal of \$0.00. The currency is set to US Dollar. The main content area is for Men's Fashions > Pants. A modal window is open for the product 'Cords', priced at \$22.00. The modal includes a quantity selector set to 1, an 'Add to Cart' button, a product image, and dropdown menus for 'CordsColor' (set to Black) and 'CordsSize' (set to 29W x 28L). Below the image are links for 'more info', 'Add to Wish List', and 'Add to Compare'. The background shows a list of products with 'Cords' selected, and a sidebar with 'Men's Fashions', 'Pants', and 'Shirts' categories. On the right, there is a 'Compare' section and an 'E-mail Newsletter' sign-up box.

Part 6: Manage merchandising associations

In this part, you will learn how to load merchandising associations and how to delete them.

- ___ 1. In the command window, navigate to <WCS_HOME>\bin, and run this command:

```
dataload ..\samples\DataLoad\Catalog\IntegrateScenario\wc-data-load-merchandising-association.xml
```

- ___ 2. Verify the data is loaded into the database.

- ___ a. Issue this SQL query:

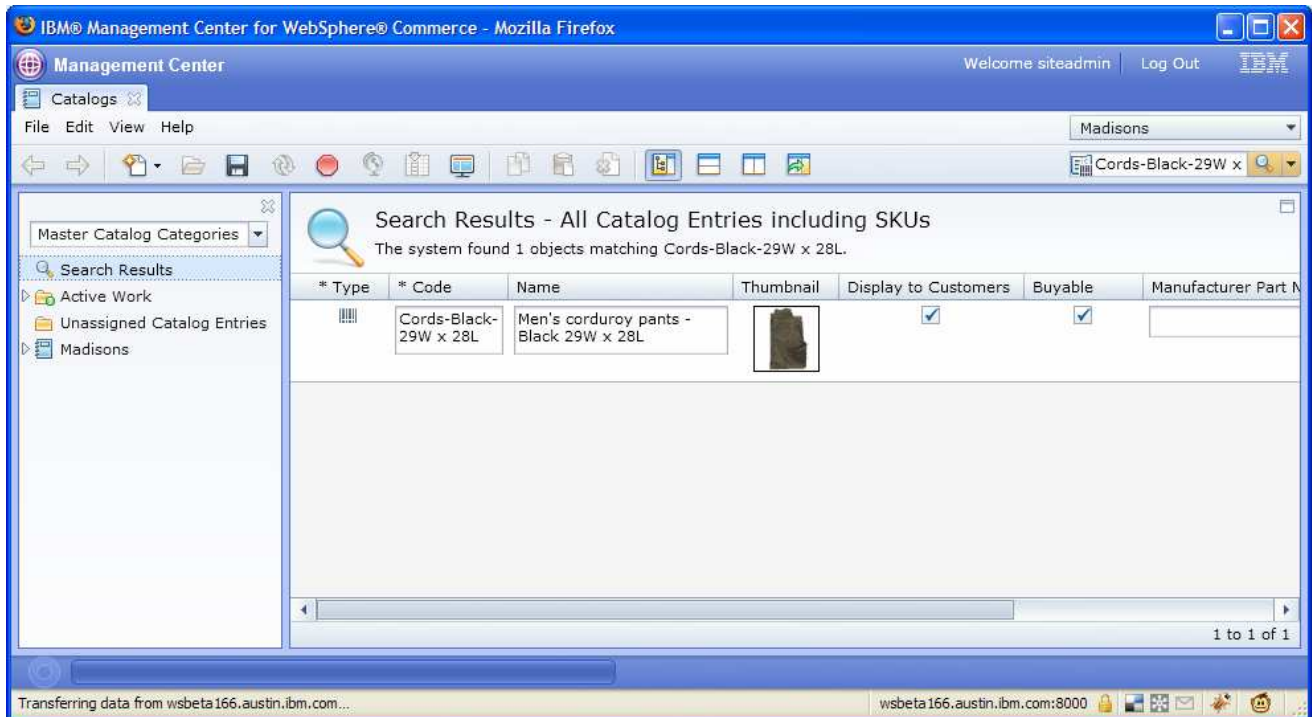
```
select * from MASSOCCECE where catentry_id_from = (select catentry_id from catentry where partnumber = 'Cords-Black-29W x 28L')
```

2 records should be returned. They are the merchandising associations for this item.

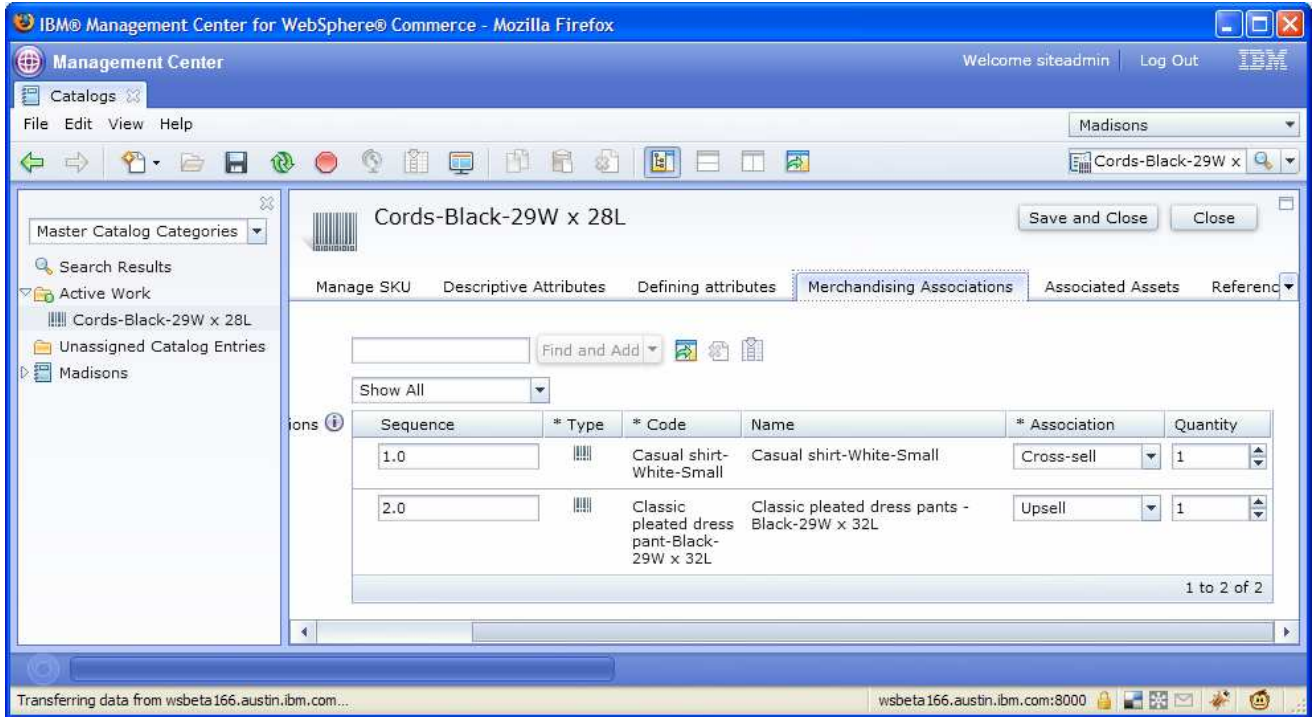
```
db2 => select * from MASSOCCECE where catentry_id_from = (select catentry_id from catentry where partnumber = 'Cords-Black-29W x 28L')
MASSOCCECE_ID      MASSOCTYPE_ID      CATENTRY_ID_FROM  RANK              CATENTRY_ID_TO    MASSOC_ID
-----
                10201 %-SELL              14702              1.00000           14202 NONE
                10202 UPSELL              14702              2.00000           15202 NONE
2 record(s) selected.
```

- ___ 3. Verify the merchandising associations are loaded in the Management Center Catalogs tool:

- ___ a. In the Catalogs tool, type **Cords-Black-29W x 28L** in the quick search and press enter.



- ___ b. Open the SKU **Cords-Black-29W x 28L** and select the **Merchandising Associations** tab. You can see the two merchandising associations are displayed. Click the Reload button on the menu bar if you cannot see them.



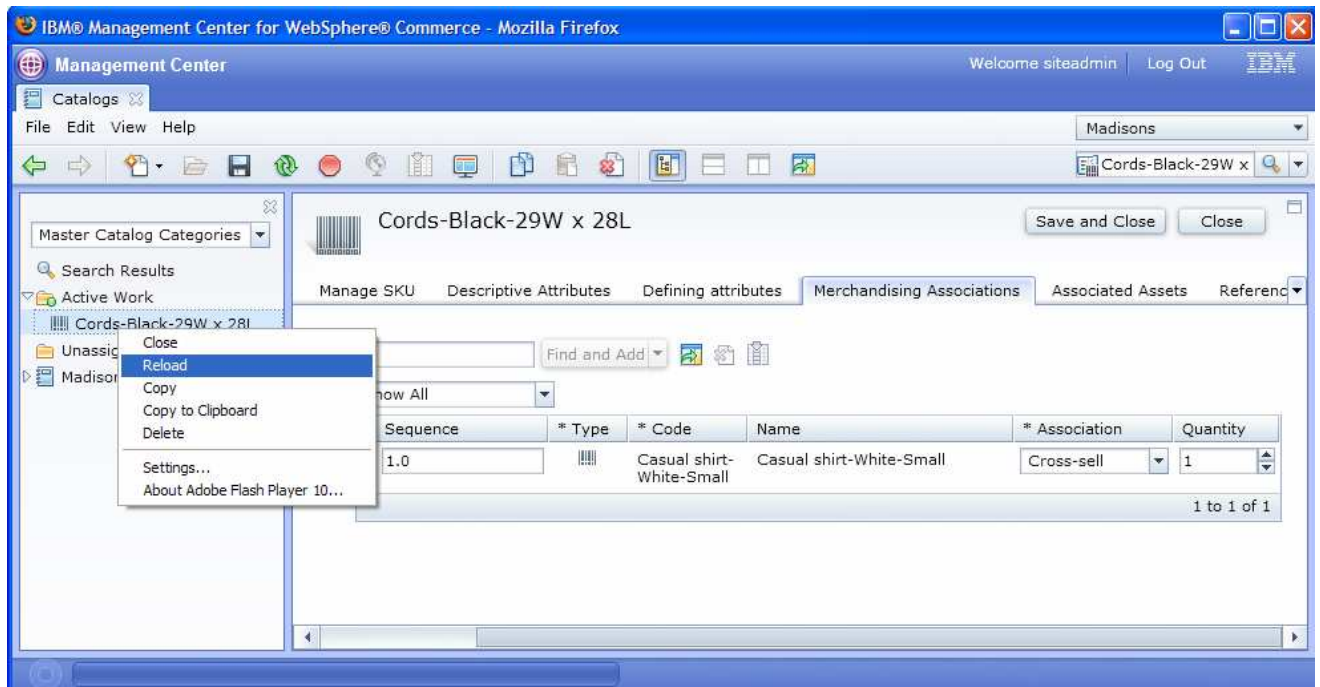
- ___ 4. Now try deleting the **Upsell** association. To do this, open **MerchandisingAssociations.csv** under <WCS_HOME>\samples\DataLoad\Catalog\IntegrateScenario. You can use a text editor, IBM Lotus Symphony or Excel to edit the CSV file.
- ___ 5. Change the Delete cell for the “Upsell” association from 0 to 1 and save the file.

A	B	C	D	E	F
PartNumber	AssociationType	TargetPartNumber	Sequence	Quantity	Delete
Cords-Black-29W x 28L	CrossSell	Casual shirt-White-Small	1	1	0
Cords-Black-29W x 28L	UpSell	Classic pleated dress pant-Black-29W x 32L	2	1	1

- ___ 6. In the command window, navigate to <WCS_HOME>\bin, and run this command again:

```
dataload ../samples/DataLoad/Catalog/IntegrateScenario/wc-dataload-merchandising-association.xml
```

- ___ 7. Verify the **Upsell** merchandising association has been deleted by reloading this item in the Management Center Catalogs tool:



Part 7: How to turn on data load trace

If there are errors reported during data load, you can turn on the data load trace to debug the problem by specifying one extra parameter on the command line.

- ___ 1. Run this on the command line:

```
dataload ..\samples\DataLoad\Catalog\IntegrateScenario\wc-dataload.xml -
D.level=FINER
```

- ___ 2. The trace output file **wc-dataload.log** can be found under:

```
<WCS_HOME>\logs
```

NOTE: The noun populated from the CSV is helpful in debugging problems. You can find the noun by searching for the second occurrence of populateDataObject in the wc-dataload.log

The following is an example:

```
<?xml version="1.0" encoding="UTF-8"?>
<sdo:datagraph xmlns:_cat="http://www.ibm.com/xmlns/prod/commerce/9/catalog"
  xmlns:_wcf="http://www.ibm.com/xmlns/prod/commerce/9/foundation" xmlns:sdo="commonj.sdo">
  <_cat:CatalogGroupType displaySequence="1.0"
    topCatalogGroup="true">
    <_cat:CatalogGroupIdentifier>
      <_wcf:ExternalIdentifier>
        <_wcf:GroupIdentifier>Mens Fashions</_wcf:GroupIdentifier>
        <_wcf:StoreIdentifier>
          <_wcf:ExternalIdentifier/>
        </_wcf:StoreIdentifier>
      </_wcf:ExternalIdentifier>
    </_cat:CatalogGroupIdentifier>
    <_cat:Description>
      <_cat:Name>Men's Fashions</_cat:Name>
      <_cat:Thumbnail>images/catalog/mens_shirts_dress_stone_sm.gif</_cat:Thumbnail>
      <_cat:FullImage>images/catalog/mens_shirts_dress_stone.gif</_cat:FullImage>
      <_cat:ShortDescription>All men's dresswear</_cat:ShortDescription>
      <_cat:LongDescription>Find the latest in men's fashions.</_cat:LongDescription>
      <_cat:Keyword>mens fashions</_cat:Keyword>
    </_cat:Description>
    <_cat:ParentCatalogGroupIdentifier>
```

```
<_wcf:ExternalIdentifier>  
  <_wcf:StoreIdentifier>  
    <_wcf:ExternalIdentifier/>  
  </_wcf:StoreIdentifier>  
</_wcf:ExternalIdentifier>  
</_cat:ParentCatalogGroupIdentifier>  
</_cat:CatalogGroupType>  
</sdo:datagraph>
```

Part 8: Clean up the data loaded

If you want to clean up the all the data loaded in the previous steps to start again, you can run this script in DB2 CLP window, for example:

```
db2 -tvf <WCS_HOME>\samples\DataLoad\Catalog\IntegrateScenario\CleanUp.sql
```

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