**152-080 Databases**

# **Unit 12: Coding Scripts**

# Introduction

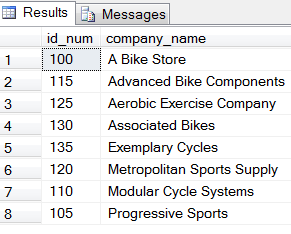
In this lab you will create 3 script files and run them either from your SQL command prompt (sqlcmd) or from within SSMS.

In order to complete this assignment, first execute the **dbo\_product\_script.sql** script to create a table called [dbo].[product] in the AdventureWorks database.

Make sure you modify the script to use the correct AdventureWorks database version. The script uses **AdventureWorks**.

# Instructions

You are to complete the following actions. In order to do this assignment, you will need to run **dbo\_product\_script.sql** to generate the data. For each question below – paste in print screens of your scripts and result.

1. Create a script file named **CreateDB.sql**. In that file you need to have it do the following:
   1. Use the AdventurWorks database
   2. Create a table named **MyCompanies** with a column ***id\_num*** of type INT which uses IDENTITY(100,5), and a column ***company\_name*** which is a VARCHAR up to 100 chars in length.
   3. Insert the following rows into the table  
      
   4. Now have the script select the ***company\_name*** then ***id\_num*** for all companies that contain the word **Bike** in their ***company\_name***.
   5. Edit your script you created to have the appropriate batches as required in order to get it run properly.
   6. Run the script within SSMS or open a command prompt and login to SQL Server and execute your script file. Get a screen shot of the result.

**YOUR SCRIPT WAS:**

Text

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Graphical user interface, table

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2. Create a script called **MaxList.sql**. Have the script do the following.

1. Use the AdventurWorks database
2. Using the **dbo.Product** table which you created for this assignment.
3. Use a **WHILE** loop with an expression to check to see if the average **ListPrice** of a product is less than $500.
4. If it is then have it Update the ListPrice to be double its current amount.
5. Have it select the max ListPrice
6. Have it check to see - If the maximum ListPrice is less than or equal to $5000, the WHILE loop restarts.
7. This loop continues doubling the prices until the maximum price is greater than $5000, and then exits the WHILE loop.
8. After the while loop ends have it display the average and maximum ListPrice
9. Edit your script you created in step to have the appropriate batches as required in order to get it run properly.
10. Run the script within SSMS or open a command prompt and login to SQL Server and execute your script file. Get a screen shot of the result.

**YOUR SCRIPT WAS:**

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A picture containing table

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3. Create a script called **ProductCategory.sql**. Have the script do the following.

1. Use the AdventurWorks database
2. Using the **dbo.Product** table
3. Create a select statement that outputs the ***ProductNumber*** and ***Category*** and displays them in the ***ProductNumber*** order.
4. Use a **CASE** expression to change the display of product line categories to make them more understandable. For example, if the product line is “R”, then the category should display “Road”. If it’s “M”, then display “Mountain”, etc.  
   R = Road, M = Mountain, T=Touring, S= Sales, any other value should say Not For Sale
5. Edit your script you created to have the appropriate batches as required in order to get it run properly.
6. Run the script within SSMS or open a command prompt and login to SQL Server and execute your script file. Get a screen shot of the result.

**YOUR SCRIPT WAS:**

Graphical user interface, text

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Table

Description automatically generated with medium confidence