**Ad**

**Gateway Technical College**

DATABASES

152-080

Unit 11 Assignment

# 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 **AdventureWorks2016**.

MAKE SURE document your work and your commands work before you past them into the document.

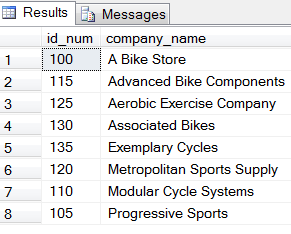
Once completed, attach this completed word document to this assignment for grading.  Each question will be worth 25 points.

Use the **Discussion Forum** if you have any questions regarding the how to approach this assignment. You can also email your instructor directly for assistance if you have any questions.

Save your submission as ***lastnameFirstname\_assign11.docx*** and submit it in the unit *Apply* section of the course.

# 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:**

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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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| --- |
| Use AdventureWorks2016  Go  While (Select Avg(ListPrice) From dbo.Product) < 500  Begin  Update dbo.Product  Set ListPrice = ListPrice \* 2  Select Max(ListPrice) From dbo.Product  If (Select Max(ListPrice) From dbo.Product) < 5000.01  Continue  Else  Break  End  Go  Select Max(ListPrice) From dbo.Products |

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:**

|  |
| --- |
| Use AdventureWorks2016  Go  -- ProductNumber & ProductSubcategoryID  Select ProductNumber,  ProductLine,  Category = Case ProductLine  When 'R' Then 'Road'  When 'M' Then 'Mountain'  When 'T' Then 'Touring'  When 'S' Then 'Sales'  Else 'Not For Sale'  End  From dbo.Product  Order By ProductNumber  Go |