**Student Name: Weight: 10.5%**

**Student ID:** **Marks:** **/12**

# Project Deliverable 4 – Populating the Database

## Scenario

Continue to follow the project scenario which was provided in a separate document. For this deliverable, you will create a realistic dataset that can be used to support a prototype system and be demonstrated to the customer as part of the final deliverable.

## Equipment and Materials

For this lab, you will need:

* A Windows computer with a minimum of 16GB RAM and 250GB of free disk space, capable of nested virtualization
* Access to Oracle Version 11g or better through SQL\*PLUS
* The following documents found in Brightspace under the Project Resources section:
  + *Process Documentation*
  + *Project Scenario*
  + *Populating Requirements*

## Instructions

1. Continue in the small group you worked with for the previous project deliverable.
2. Review the *Process Documentation* for the project to view the inputs and outputs for this deliverable.
3. Reference the *Project Scenario* as needed.
4. Review the *Populating Requirements* for the project.
5. Package your solution up in a folder and compress it (using Windows compress) and submit the compressed folder on Brightspace. The structure should include:
   1. Design Folder
      1. Contains the conceptual model as a .pdf
      2. Contains the physical model as a .pdf
   2. Build Folder
      1. Contains a README.txt file that explains how to create the tables
      2. Contains the build script(s)
      3. Contains a spool file that shows all commands and results
   3. Populate Folder
      1. Contains a README.txt file that explains how to populate the tables
      2. Contains populate script(s)
      3. Contains a spool file that shows all commands and results
   4. Verification Folder
      1. Contains a README.txt file that explains how to run the scripts to verify the tables
      2. Contains a verification script(s) that uses **select \* from tablename;** for each table in the database
      3. Contains a spool file that shows all commands and results
6. Include an attribution list in your submission that outlines the activities associated with completing this assignment. A sample attribution list is provided on Brightspace.

## Tips for Success

* Use real data from amazon.ca.
* Create a spreadsheet to organize the contents of each table and their linkage to each other (through the Primary Keys and Foreign Keys). Have a worksheet for each table.
* Determine the order to insert data and sketch this order in the script.
* Determine the order to delete the data and place delete commands at the top of the script.
* Delete tables in the reverse order of their creation.
* Split the work into independent units that can be written and tested.
* Give each group member a set of tables. Then write the insert commands based on the data in the worksheets.
* Insert data in the same order as the create statements of the previous deliverable (parents first, children second).

## Marking Criteria

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Categories** | **Needs Improvement (0–40)%** | **Adequate (50–70)%** | **Good (80–100)%** | **Score** |
| **Populate tables from physical model** | 4 or more tables are missing | 1-3 tables are missing | All tables present | **/5** |
| **Script runs error free** | 5 or more errors | 2-4 errors | No errors | **/2** |
| **Dataset is realistic** | Inadequate dataset. Very few realistic reports can be generated from the resultant dataset. | Simplistic dataset. Quantity of reports is affected by the dataset. | Realistic dataset that models complexities that exist in the real-world data. Generates interesting and realistic reports based on the dataset. | **/3** |
| **Submission meets the required folder structure and includes all relevant files** | Missing 3 or more components | Missing 1-2 components | No components missing | **/2** |
| **Total** | | | | **/12** |