**Student Name: Weight: 12.25%**

**Student ID:** **Marks:** **/17**

# Project Deliverable 5 – Prototype System

## Scenario

Continue to follow the project scenario which was provided in a separate document. For this deliverable, your goal is to create a realistic set of reports that demonstrate proof of concept for the creation of a complete system. The reports should demonstrate the power and potential of the system.

## 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*

## 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* to view the suggested use cases.
4. Design and implement sample reports based on your project database. Based on your group size, produce the required number of reports.

**Table 1. Report Requirement Per Group Size**

|  |  |
| --- | --- |
| 1. Number of contributing Team Members | Submission Requirement |
| 2 or less | 3 reports (1 must be an SQL\*PLUS report) |
| 3 | 4 reports (1 must be an SQL\*PLUS report) |
| 4 or more | 5 reports (1 must be an SQL\*PLUS report) |

1. Required Features: your scripts must make use the following features in at least ONE report. You may need to submit more than the minimum required reports to accomplish this task.

**Table 2. Required Features of Each Report**

|  |  |
| --- | --- |
| 1. **Required Feature** | 1. **Module** |
| 1. Joins | 1. SQL: Joining Data |
| Single-Row Functions | SQL: Single-Row Functions |
| Restricting Rows and Sorting Data | SQL: Restricting Rows and Sorting Data |
| Group Functions | SQL: Group Functions |
| ACCEPT Keyword | Script will input values from the user to customize the report |
| Subqueries | SQL: Subqueries |
| SQL\*PLUS Report Formatting including: BREAK, COMPUTE, COLUMN, TTITLE, BTITLE | Reporting in SQLPLUS |

1. Using a screen capture tool, create a 10-15 minute video presentation of your prototype system for the customer. In your video, you should:
   1. Provide a quick overview of your physical model
   2. Explain and demonstrate each report
      1. Explain the purpose of the report and how it is useful to the customer
      2. Outline which Required Features are supported by the report
      3. Demonstrate how to run the report
      4. Show the output of the report
   3. Upload the video to Brightspace or provide a link to your video (e.g. YouTube link, etc.)
2. Package your solution up in a folder. Z compress it using Windows compress and submit it through Brightspace. The structure should include:
   1. The folder structure from your previous submission, including the design, build, populate, and verification folders.
   2. Reports Folder
      1. README.txt file providing a brief description of each report
   3. One sub-folder for **each** report
      1. README.txt file explaining how to generate the report
      2. A script
      3. A spool file showing a sample run of the report
3. 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

Distribute the reports among team members and review each other’s work.

## Marking Criteria

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Categories** | **Needs Improvement (0–40)%** | **Adequate (50–70)%** | **Good (80–100)%** | **Score** |
| **Required number of reports provided** | Missing 2 or more reports | Missing 1 report | Required number of reports provided | **/5** |
| **Report Selection and Design** | Marginal set of reports, hard to see the potential benefit of the system. | Most reports are thoughtful and relevant, some could be improved on. Users can see some benefits of the system. | Thoughtful and useful set of reports based on a relevant dataset. Demonstrates the power and potential of the system. | **/2** |
| **Video overview of the prototype (aspect: physical model, purpose/demo of each report)** | Missing important aspects. Hard to follow. Components of presentation are missing. | Covers most aspects. Some points of the presentation could be improved upon. Limited number of team members present. | Covers all aspects. Presentation is well organized. It is clear which features are being used and which tables are being used. All team members present the reports they developed. | **/2** |
| **Reports make use of Required Features listed in *Table 2*** | 2 or more required features missing. | 1 required feature missing. | All required features present. | **/2** |
| **Accessing database tables** | Less than 70% of the database tables are accessed by the prototype. | Most (70% or more) database tables are accessed by the prototype. | All database tables are referenced by the prototype. | **/2** |
| **Formatting** | 3 or more reports are not readable. | 1-2 reports have some readability issues. | Reports are well formatted and easy to read. Includes description column headers. Column widths ensure data are readable. | **/2** |
| **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** | | | | **/17** |