**INFO 579 Week 6 Assignment**

Course:  INFO 579: SQL/NoSQL Databases for Data and Information Sciences

Module/Week: 6 - Week of September 25, 2023

**Topic: Simple Queries Using Structured Query Language (SQL)**

NOTE: The assignment document must provide the below information. Up to 10 points may be deducted due to the lack of the below information.

Student’s Full Name:

Course Title:

Term name and year: Example, Fall 2023

Submission Week: [example, Week 6 Assignment]

Instructor’s Name:

Date of Submission:

The above information must be provided at the upper left corner of the first page of the document.

Each answer(s) must be preceded by the question/ title of the topic/article of the assignment.

Acceptable File: Word (put the screenshots of the models) or PDF.

File Name Format: Name your file according to this convention: INFO579\_Week6\_Lastname.pdf. Submission must be made in a single document.

NOTE: There will be a 20% deduction of points for any late submission.

**Reading Requirements for this Assignment:**

1. Read the Data file titled, Week6\_Assignment\_Data.xlsx, uploaded to the Week 6 Assignment folder in D2L. This is the same data uploaded to the previous week’s folder.

**NOTE-1:** All data display must be made based on SQL. No data display should be made using any graphical tool (e.g., MySQL workbench has such things).

**NOTE-2:** Note you cannot do any UPDATE statement to the data you already loaded in the tables. If you think, if you think you have data integrity issue, you can empty the table(s) and reload. Also, you cannot create any additional table(s) to do this assignment.

**Assignment Instructions: Answer the following questions and provide screenshots, code, and results in a Word document or PDF file. You must put each question (question no. & description) before your answers. All screenshots must be easily readable. Always take the screenshot of what is needed instead taking the screenshot of the whole page. Grade points: 50 (5 points for each question).**

1. Write a query to display the unique TrainerFirstName from the Trainer table. Sort the results. Make sure you show the print screen of the complete set of the rows and columns.

2. Write a query to display FirstName, LastName, and HireDate of employees with HireDate greater than January 11, 2011. Sort the results by HireDate. Make sure you show the print screen of the complete set of the rows and columns.

3. Write a query to display FirstName, LastName, and HireDate of employees hired between January 11, 2005, and January 11, 2011. Sort the results by HireDate. Make sure you show the print screen of the complete set of the rows and columns.

4. Write a query to display the FirstName, LastName, DepartmentId from the Employee table. Sort the output by DepartmentID and LastName. Make sure you show the print screen of the complete set of the rows and columns.

5. Write a query to display the EquipmentID, EquipmentName, and EquipmentCostAmount increase by 15% expressed as a whole number. Label the column NewEquipmentCost. Sort the results by EquipmentID. Make sure you show the print screen of the complete set of the rows and columns.

6. Write a query to display the FirstName, LastName, HireDate, and Year on which the employee started (Employee table). Sort the results by Year and LastName. Make sure you show the print screen of the complete set of the rows and columns.

7. Write a query to display the FirstName, LastName, HireDate from the Employee table. Sort the data in descending order of HireDate. Make sure you show the print screen of the complete set of the rows and columns.

8. Write a query to display all columns from the employee table for an employee who joined the company first and without using any hard-coded filter. Make sure you show the print screen of the row and all columns.

9. Write a query to display the minimum and maximum HireDate for each Department (hints: DepartmentID) (Employee table). Make sure you show the print screen of the complete set of the rows and columns.

10. Write a query to display the number of trainers for each training course. Source tables: Training and Trainer. Sort the results by TrainingName. Make sure you show the print screen of the complete set of the rows and columns.

**End**