SQL Query Execution Assignment I Rubric

Course: Database Development with PL/SQL INSY 8311
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Assignment Date: February 14, 2025
Group A, B, E, F

Assignment II Task:

1. Install Oracle Database Administration:

   - Follow the installation guide to set up Oracle Database on your machine.
   - Ensure the database is configured correctly and can be accessed via Oracle SQL Developer.
   - Create a Pluggable Database (PDB) named **grp_*studentID_pdb_assI*** (e.g., **mon_*12345_pdb_assI,* tue_*12345_pdb_assI, etc.***).
   - Keep all the tables in this PDB.

2. Execute SQL Commands in Oracle Database:

   - System Management System:
     - Design a conceptual diagram illustrating the tables with relationships (one-to-one, one-to-many, or many-to-many).
     - Create Tables: Implement the relationships defined in your diagram.
   - SQL Commands: Write and execute SQL commands to:
     - Create the tables from your diagram.
     - Insert, update, and delete data.
     - Perform joins to retrieve related data across tables.
     - Use DDL, DML, DCL, and TCL operations.
     - Execute basic SQL commands (SELECT, INSERT, UPDATE, DELETE).
     - Perform joins and subqueries.
     - Identify records created in the past week
     - Write a query to find records added in the past 7 days
     - Retrieve the top 5 highest values in each category
     - Retrieve records where an entity has more than 3 related transactions

3. Upload Your Script to GitHub:

   - GitHub Account: To this GitHub Organization repository ClickMe
   - Set Up a Repository:
     - Create a new repository (e.g., **grp_studentId_firstName_lastName_assI** example: **mon_*12125_eric_maniraguha_assI,* Tue_*12125_eric_maniraguha_assI,* etc.**); which should be **private**.

- Upload Your Script:
  - Save all SQL commands in a file (e.g., ***sql_test_script.sql***).
  - Push the sql file on GitHub
- Create a README File:
  - Include a problem statement that describes the system you are managing with your database (e.g., a system for managing a library, employee records, etc.).
  - Provide a short description of the SQL commands executed.
  - Add screenshots of your SQL queries, results, and your conceptual diagram.
  - Provide clear explanations of the results and transactions.

4. Submission:

- Provide the link to your GitHub repository where the SQL script, README file, and the conceptual diagram are uploaded. **Total Points: /10 (including 1.5 additional marks for good documentation)**
Additional Notes:

1. Short Introduction in the Readme which starts with your ID, Names, and Concentration.
2. Problem Statement: Provide a problem statement in the README that describes the system being managed by the database.
3. **Conceptual Diagram:** Include a diagram that shows at least four related tables with relationships.
4. **Results:** Show the output of SQL queries and transactions.
5. **Screenshots:** Include screenshots of SQL queries, results, and your conceptual diagram.

Deadline: February 27, 2025, at 11:59 PM.

Late submissions are not allowed unless you want to get zero.

Colossians 3:23 – *"Whatever you do, work at it with all your heart, as working for the Lord, not for human masters."*

Good luck with your assignment! If you need any more help, feel free to reach out.