Assessment: MySQL Database – Employee Management System

Objective

Design and implement MySQL-based employee management system using a database, table and stored procedure.

🤚 SECTION 1: Database & Table Design

Task 1:
Create a new MySQL database named 'empdb'.

Task 2:
Within 'empdb', create a table named 'empmaster' with the following schema:
- ID – Integer (Primary Key)
- empname – Text
- empemail – Text
- dept – Text
- age – Integer

🤚 SECTION 2: Data Population

Task 3:
Insert the following employee records into the 'empmaster' table:
1. David, david@gmail.com, Finance, 40
2. Archie, archie@gmail.com, HR, 30
3. Betty, betty@gmail.com, IT, 25

🤚 SECTION 3: Stored Procedure

Task 4:
Create a stored procedure named 'GetEmployeesWithBonusAboveAge' that:
- Accepts an input parameter: age
- Returns all employees whose age is greater than the input
- Includes a calculated column named 'bonus' using the formula: bonus = age * 2500

Task 5:
Test the stored procedure manually using SQL commands to verify expected outputs.

Launching MySQL Console:

1. **To open the command terminal the test takers need to go to the Application menu**
2. **(Three horizontal lines at left top) -> Terminal -> New Terminal.**
3. **To login to mysql instance: Open new terminal and use following command:**

   a. sudo systemctl enable mysql
   b. sudo systemctl start mysql

NOTE: After typing any of the above commands you might encounter any warnings.
>> Please note that this warning is expected and can be disregarded. Proceed to the next step.

c. mysql -u root -p
The last command will ask for password which is 'pass@word1'

Running Test Cases:

1. Launch another instance of Terminal
2. Run command: **mvn test**
3. You can run this command any number of times to test the status of your activities.
4. Make sure before final submission, you must run test and then submit