**SQL Task**

**Task 1: Create a table named Employee Details with the following 10 columns and use suitable constraint for every column:**

* **EmployeeID (Serial)**
* **FirstName (VARCHAR, maximum 50 characters)**
* **LastName (VARCHAR, maximum 50 characters)**
* **Email (VARCHAR, maximum 100 characters)**
* **PhoneNumber (VARCHAR, maximum 15 characters)**
* **HireDate (DATE)**
* **Salary (DECIMAL, with precision 10 and scale 2)**
* **DepartmentID (Integer)**
* **IsActive (BOOLEAN)**
* **JobTitle (VARCHAR, maximum 100 characters)**

**Task 2: Insert data into the Employee\_Details Table**

1. Insert at least **5 rows** of data into the **Employee\_Details** table created in Task 1.
2. Use meaningful data for each column, making sure the EmployeeID is unique, Salary is realistic, and the HireDate is in a valid date format.
3. Write the SQL queries to insert the data.

**Task 3: Insert Data from a CSV File into the SQL Table**

1. Insert data from a CSV file into the existing **Employee\_Details** table that you created in Task 1.

**Task 4: Update the Employee\_Details Table**

1. Update the EmployeeDetails table by setting the DepartmentID to 0 for all employees where IsActive is set to False.

**Task 5: Update the Employee\_Details Table - Salary Increment**

1. Increase the Salary by 8% for employees who meet the following conditions:

* IsActive = False
* DepartmentID = 0
* JobTitle is one of the following:

**1. HR Manager 2. Financial Analyst 3. Business Analyst 4. Data Analyst**

**Task 6: Query to Find Employees with Custom Column Names**

1. Retrieve the FirstName and LastName of employees whose Salary is between 30,000 and 50,000 and display the results as Name (for FirstName) and Surname (for LastName).

**Task 7: Query to Find Employees Whose FirstName Starts with 'A'**

1. Retrieve all data from the Employee\_Details table where the FirstName starts with the letter 'A'.

**Task 8: Delete Rows with EmployeeID from 1 to 5**

1. Delete the rows from the Employee\_Details table where the EmployeeID is between 1 and 5.

**Task 9: Rename Table and Columns**

1. Change the name of the table and specific column names in the existing database structure to enhance clarity.

**Instructions:**

1. **Rename the table** from Employee\_Details to employee\_database.
2. **Rename the columns** as follows:
   * Change FirstName to Name.
   * Change LastName to Surname.

**Task 10: Add State Column and Update Data in PostgreSQL**

1. Enhance the employee\_database table by adding a new column for State and populating it based on the IsActive status of employees.

**Instructions**

1. **Add a new column** named State with the following specifications:
   * Data type: VARCHAR
   * Constraint: NOT NULL
2. **Update the State column** with the following conditions:
   * Set State to 'India' for all employees where IsActive is TRUE.
   * Set State to 'USA' for all employees where IsActive is FALSE.