CSE370 : Database Systems Lab

Database Challenge 01

Activity List

Task 1

Create a database named **"The_Office".**

CREATE DATABASE The_Office;

Task 2

Use that database and create a table **"Employee"** to record details of the Employees in the Office.

CREATE TABLE Employee (
Emp_ID char(4),
Name varchar(50),
Age int,
Role varchar(30),
Salary int,
Joining_Date date);

Task 3

Insert values from the table below in **"Employee"**

Emp_ID	Name	Age	Role	Salary	Joining_Date
E001	Michael Scott	40	Manager	100000	1999-09-20
E002	Jim Harper	30	Sales Executive	60000	2004-09-30
E003	Pam Beesly	28	Receptionist	25000	2003-09-30
E004	Angela Martin	33	Accountant	65000	2005-09-28
E005	Dwight Shrute	32	Assistant Manager	60000	2003-09-30
E006	Kelly Kapoor	29	Marketing Executive	45000	2003-09-30
E007	Andrew Bernard	30	Sales Executive	50000	2007-05-10

E008	Kevin Malone	28	Accountant	60000	2004-10-30
E009	Toby Flender	35	HR Manager	70000	2004-09-30
E010	Phyllis Vance	40	Sales Executive	61000	1999-09-20
E011	Creed Bratton	50	Sales Executive	80000	1980-06-01

INSERT INTO Employee VALUES

("E001", "Michael Scott", 40, "Manager", 100000, "1999-09-20"),

("E002", "Jim Harper", 30, "Sales Executive", 60000, "2004-09-30"),

("E003", "Pam Beesly", 28, "Receptionist", 25000, "2003-09-30"),

("E004", "Angela Martin", 33, "Accountant", 65000, "2005-09-28"),

("E005", "Dwight Shrute", 32, "Assistant Manager", 60000, "2003-09-30"),

("E006", "Kelly Kapoor", 29, "Marketing Executive", 45000, "2003-09-30"),

("E007", "Andrew Bernard", 30, "Sales Executive", 50000, "2007-05-10"),

("E008", "Kevin Malone", 28, "Accountant", 60000, "2004-10-30"),

("E009", "Toby Flender", 35, "HR Manager", 70000, "2004-09-30"),

("E010", "Phyllis Vance", 40, "Sales Executive", 61000, "1999-09-20"),

("E011", "Creed Bratton", 50, "Sales Executive", 80000, "1980-06-01");

Task 4

Complete all tasks below:

   a. Find the name and role of employees whose name starts with "a" or ends with "e"
   b. Find the details of Employees who have salary between 40000 and 60000
   c. Find the details of employees who have joined before the year 2000.
   d. There will be a 5% raise in salary for all sales executives, as they have done an excellent job last year. Update the table with the new raised salary. Check if the salary was updated.
   e. Michael Scott will get a bonus of 20% on his salary for excellent leadership initiatives last year. Calculate his bonus and use the alias ("Michael_Bonus") for the column header. [Note: You should **not** update his salary. Only show the bonus]

f. Show the details of all employees according to their salary sorted from higher to lower.
g. Show the details of all employees according to their age sorted from lower to higher.
h. Show details of employees whose age is more than 35 and who joined before 2003.
i. Turns out Creed Bratton has been lying about his age, he is actually 80 years old. So he should retire. Delete him from the table.
j. Find the details of employees who have the word "executive" in their role.
k. Change the attribute "Name" to "Employee_Name"
l. Add attribute "Bonus" to the employee table.
m. Delete attribute "Bonus" from the table.
n. List the names of different job roles in the office. There should not be any repetition in your list.