**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' ),

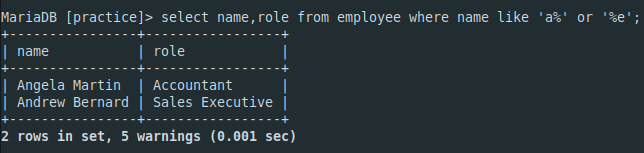
('E010', 'Phyllis Vance', 40, 'Sales Executive', 61000, '1999-09-20' ),

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

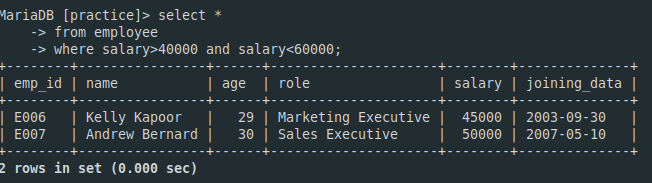
**Task 4**

Complete all tasks below:

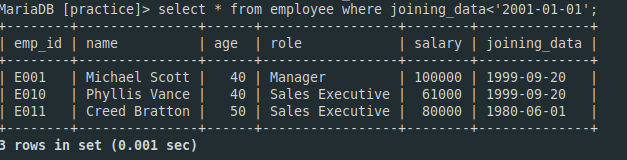
1. Find the name and role of employees whose name starts with 'a' or ends with 'e'



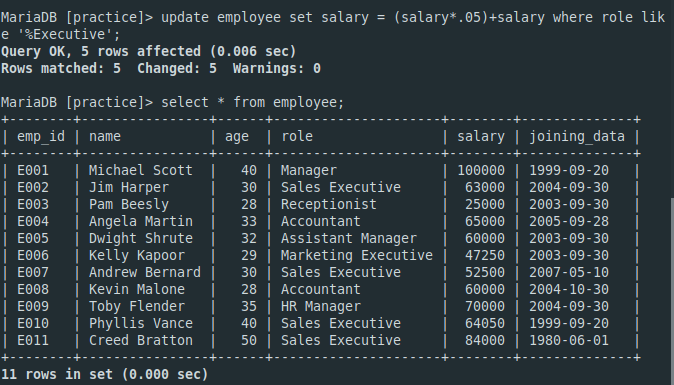
1. Find the details of Employees who have salary between 40000 and 60000



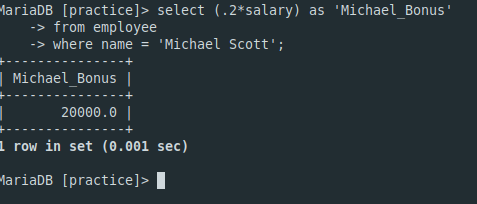
1. Find the details of employees who have joined before the year 2000.



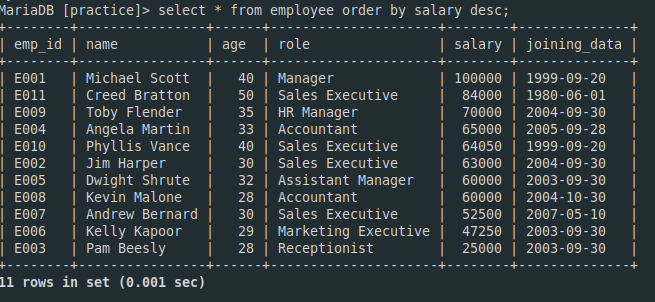
1. There will be a 5% raise in salary for all sales executives, as they have done an excellent job last year. Update the table with the new raised salary. Check if the salary was updated.



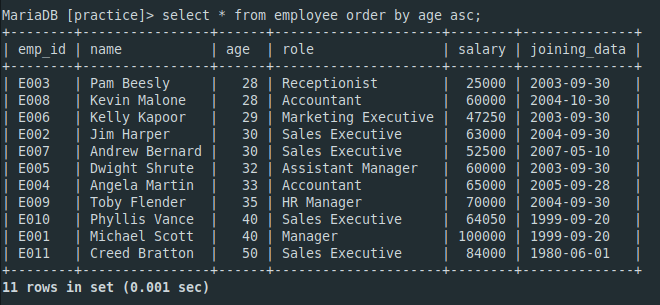
1. Michael Scott will get a bonus of 20% on his salary for excellent leadership initiatives last year. Calculate his bonus and use the alias ('Michael\_Bonus') for the column header. [Note: You should **not** update his salary. Only show the bonus]



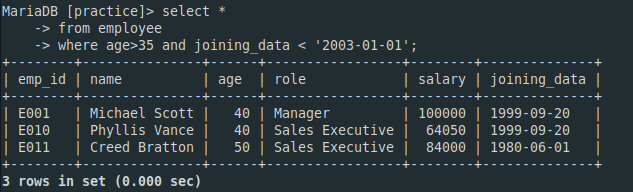
1. Show the details of all employees according to their salary sorted from higher to lower.



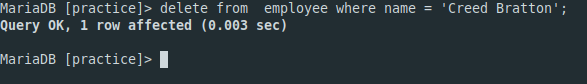
1. Show the details of all employees according to their age sorted from lower to higher.



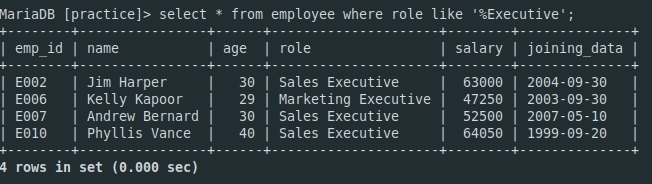
1. Show details of employees whose age is more than 35 and who joined before 2003.



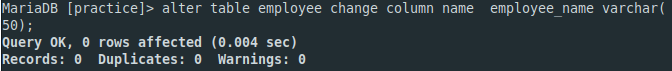
1. Turns out Creed Bratton has been lying about his age, he is actually 80 years old. So he should retire. Delete him from the table.



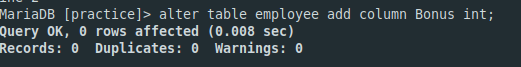
1. Find the details of employees who have the word 'executive' in their role.



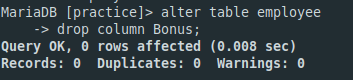
1. Change the attribute 'Name' to 'Employee\_Name'



1. Add attribute 'Bonus' to the employee table.



1. Delete attribute 'Bonus' from the table.



1. List the names of different job roles in the office. There should not be any repetition in your list.

