NAME: PIRANJAL

REG NO: CS231052

CLASS: 4-B

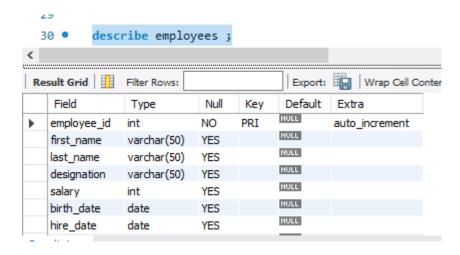
ASSIGNMENT NO: 2

1. Create a table of Employees with the following fields: employee_id, first_name, last_name, designation, salary, birth_date, hire_date, depart,ment, and city.

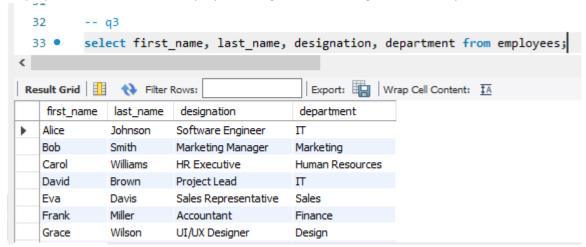
```
-- q1
5 ● ⊖ create table employees(
       employee id int primary key auto increment,
6
        first name varchar(50),
7
8
       last name varchar(50),
9
        designation varchar(50),
10
        salary int,
        birth date date,
11
12
        hire date date,
13
        department varchar(50),
14
        city varchar(50)
15
       );
```

2. Add at least 8 unique employees' records (insert relevant data). Also, show the structure of the table.

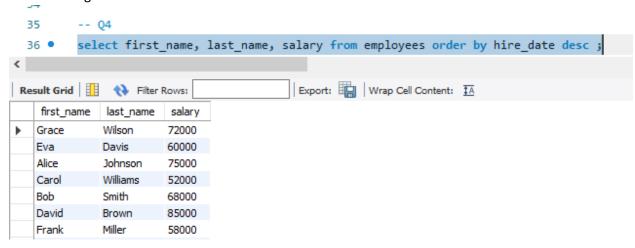
```
17
       -- q2
18 • insert into employees
19
       (first_name, last_name, designation, salary, birth_date, hire_date, department, city)
20
       ('Alice', 'Johnson', 'Software Engineer', 75000, '1992-05-14', '2020-06-01', 'IT', 'New York'),
      ('Bob', 'Smith', 'Marketing Manager', 68000, '1988-11-22', '2018-03-15', 'Marketing', 'Chicago'),
       ('Carol', 'Williams', 'HR Executive', 52000, '1990-07-19', '2019-09-10', 'Human Resources', 'Los Angeles')
       ('David', 'Brown', 'Project Lead', 85000, '1985-04-02', '2017-01-05', 'IT', 'San Francisco'),
       ('Eva', 'Davis', 'Sales Representative', 60000, '1993-02-28', '2021-05-20', 'Sales', 'Houston'),
       ('Frank', 'Miller', 'Accountant', 58000, '1989-08-12', '2016-07-11', 'Finance', 'Dallas'),
       ('Grace', 'Wilson', 'UI/UX Designer', 72000, '1991-03-30', '2022-02-14', 'Design', 'Seattle'),
27
       ('Henry', 'Taylor', 'System Administrator', 69000, '1987-10-06', '2015-10-25', 'IT', 'Boston');
28
30 •
      describe employees;
```



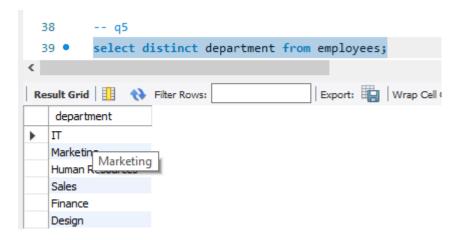
3. Display the names of all the employees along with their designation and department.



4. Display the name, salary, and date of hiring of all the employees sorted by the date of hiring in descending order.



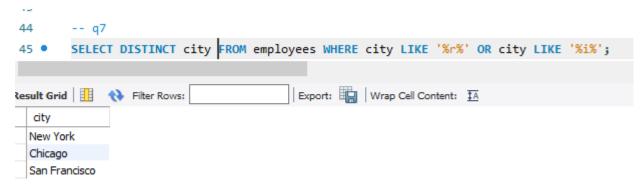
5. Display a list of all the departments in the organization (without any repetitions).



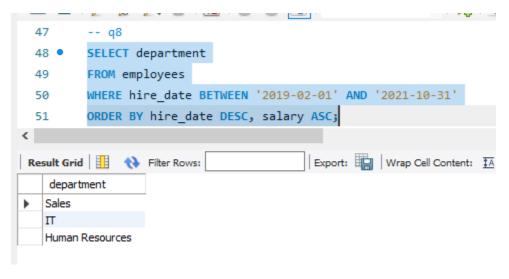
6. List all employees having a salary of less than 40,000 and hired in 2021.



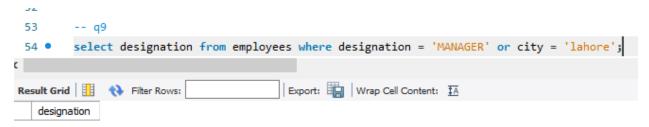
7. List all cities having the letter 'r' or 'i' in their name.



8. List all the departments with employees who have joined between February 2019 and October 2021 sorted by their date of hiring in descending order. For employees having the same hiring dates, sort records by salary in ascending order.



9. List all the employees who are Managers in Lahore.



10. Display the names of all Managers and Auditors along with their salaries. Also, show a 20% increment on their salaries under two new aliased fields, "Bonus" and "New Salary".

