Assignment No:-59

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Batch: - Delta - DCA (Java) 2024 Date: -5/8/2024

MYSQL QUESTIONS:

```
CREATE TABLE employees (
id INT NOT NULL AUTO_INCREMENT,
first_name VARCHAR(255) NOT NULL,
last_name VARCHAR(255) NOT NULL,
department VARCHAR(255) NOT NULL,
salary INT NOT NULL,
hire_date DATE NOT NULL,
birthdate DATE NOT NULL,
primary Key (id)
);
INSERT INTO employees (first_name, last_name, department, salary, hire_date, birthdate)
VALUES
('John', 'Doe', 'sales', 50000, '2022-01-01', '1980-01-01'),
('Jane', 'Smith', 'marketing', 60000, '2022-02-01', '1981-02-01'),
('Michael', 'Brown', 'engineering', 70000, '2022-03-01', '1982-03-01');
```

1. Write a query to select all the rows from the employees table.

```
mysql> select * from employees;
 id | first name | last name | department
                                            salary
                                                       hire date
                                                                     hirthdate
                                sales
                                               50000
      John
                   Doe
                                                       2022-01-01
                                                                     1980-01-01
                   Smith
  2
      Jane
                                marketing
                                               60000
                                                       2022-02-01
                                                                     1981-02-01
      Michael
                   Brown
                               engineering
                                               70000
                                                       2022-03-01
                                                                     1982-03-01
 rows in set (0.00 sec)
```

2. Write a query to select all the employees who are in the sales department.

3. Write a query to select all the employees who have a salary greater than \$50,000.

```
mysql> select * from employees where salary>50000;
                                            | salary |
    | first name | last name |
                                                      hire date
                                                                    birthdate
                               department
  2
      Jane
                   Smith
                               marketing
                                               60000
                                                       2022-02-01
                                                                    1981-02-01
      Michael
                               engineering
                                               70000
                                                       2022-03-01
                                                                   1982-03-01
                   Brown
 rows in set (0.00 sec)
```

4. Write a query to select the average salary of all the employees.

5. Write a query to select the highest and lowest salaries in the employees table.

6. Write a query to select all the employees who were hired in the year 2022.

7. Write a guery to select all the employees who have the same last name as you.

8. Write a query to select all the employees who are younger than you.

9. Write a query to select all the employees who are older than you.

```
id | first_name | last_name | department | salary | hire_date | birthdate
                       sales
   John
              Doe
                                  50000 | 2022-01-01 | 1980-01-01
                      marketing
  2
    Jane
             Smith
                                 60000 | 2022-02-01 |
                                                   1981-02-01
                      engineering | 70000 | 2022-03-01 | 1982-03-01
  3 | Michael
             Brown
 rows in set (0.00 sec)
```

10. Write a query to select all the employees who are within 5 years of your age.

12. Write a query to select all the employees who have a salary between \$50,000 and \$60,000.

13. Write a query to select all the employees who were hired in the month of January 2022.

14. Write a query to select all the employees who have the same first name as you.

15. Write a query to select all the employees who are within 10 years of your age.

```
mysql> select * from employees where birthdate between date_sub('1991-01-01',interval 10 year) and date_add('1991-01-01',interval 10 year);

| id | first_name | last_name | department | salary | hire_date | birthdate |

| 2 | Jane | Smith | marketing | 60000 | 2022-02-01 | 1981-02-01 |

| 3 | Michael | Brown | engineering | 70000 | 2022-03-01 | 1982-03-01 |

2 rows in set (0.00 sec)
```

16. Write a query to select all the employees who are in the sales department and have a salary greater than \$50,000.

```
mysql> select * from employees where department='sales'and salary>=50000;

| id | first_name | last_name | department | salary | hire_date | birthdate |
| 1 | John | Doe | sales | 50000 | 2022-01-01 | 1980-01-01 |
| 1 row in set (0.00 sec)
```

17. Write a query to select all the employees who are in the marketing department and were hired in the year 2022.

18. Write a query to select all the employees who are in the engineering department and have a salary between \$60,000 and \$70,000.

19. Write a query to select all the employees who are in the sales department or the marketing department.

20. Write a query to select all the employees who are in the engineering department and not in the sales department.

21. Write a query to select all the employees who are in the sales department, the marketing department, or the engineering department.

```
ysql> select * from employees where department='engineering' or department ='sales' or department ='marketing';
id | first_name | last_name | department
                                           | salary | hire_date
                                                                   birthdate
     John
                               sales
                                              50000
                                                      2022-01-01
                                                                   1980-01-01
     Jane
                  Smith
                               marketing
                                              60000
                                                      2022-02-01
                                                                   1981-02-01
     Michael
                  Brown
                              engineering
                                              70000
                                                      2022-03-01
                                                                   1982-03-01
rows in set (0.00 sec)
```

23. Write a query to select all the employees who have a salary greater than the average salary.

24. Write a query to select all the employees who have been with the company for more than 5 years.

```
mysql> select * from employees where hire_date <=date_add(curdate(),interval 5 year);
      first name
                  last name | department | salary | hire date
                   Doe
                                             50000
                                                     2022-01-01
                                                                  1980-01-01
                              sales
      John
                              marketing
      Jane
                   Smith
                                             60000
                                                     2022-02-01
                                                                  1981-02-01
      Michael
                  Brown
                              engineering
                                             70000
                                                     2022-03-01
                                                                1982-03-01
 rows in set (0.00 sec)
```

25. Write a query to select all the employees who have a last name that starts with the letter "M".

```
mysql> select * from employees where last_name like '%m';
Empty set (0.00 sec)
mysql>
```

26. Write a query to select all the employees who have a first name that starts with the letter "J" and a last name that starts with the letter "D".

27. Write a query to select all the employees who have a salary greater than \$50,000 and have been with the company for more than 5 years.

```
nysql> select * from employees where hire_date<= date_add(curdate(),interval 5 year) and salary>50000;
      first name | last name |
                               department
                                             salary | hire date
                                                                   birthdate
                               marketing
      Jane
                   Smith
                                              60000
                                                      2022-02-01 | 1981-02-01
      Michael
                                                      2022-03-01
                   Brown
                               engineering
                                              70000
                                                                   1982-03-01
 rows in set (0.00 sec)
```

28. Write a query to select all the employees who have a last name that starts with the letter "M" and are in the sales department.

```
mysql> select * from employees where last_name like 'm%' and department ='sales';
Empty set (0.00 sec)
```

29. Write a query to select all the employees who have a first name that starts with the letter "J" and a last name that starts with the letter "D" and are in the marketing department.

```
mysql> select * from employees where first_name like 'j%'and last_name like 'd%' and department ='marketing';
Empty set (0.00 sec)
mysql>
```

30. Write a query to select all the employees who have a salary greater than \$50,000 and have been with the company for more than 5 years and are in the sales department.

```
mysql> select * from employees where hire_date<= date_add(curdate(),interval 5 year) and salary>50000 and department='sales';
Empty set (0.00 sec)
mysql>
```

31. Write a query to select all the employees who have a last name that starts with the letter "M" and are in the sales department or the marketing department.

```
mysql> select * from employees where last_name like 'm%' and department =' marketing';
Empty set (0.00 sec)
mysql> _
```

32. Write a query to select all the employees who have a first name that starts with the letter "J" and a last name that starts with the letter "D" and are in the marketing department or the engineering department.

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mysql> select * from employees where first_name like 'j%'and last_name like 'd%' and department ='marketing' and department='engineering'; Empty set (0.00 sec)

mysql: