

TASK-3 SQL QUERIES

MR.Cooper Practice Assignment

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Table Creation ;

```
mysql> use johnson ;
Database changed
mysql> CREATE TABLE employees (
  ->     id INT PRIMARY KEY,
  ->     name VARCHAR(255),
  ->     department VARCHAR(100),
  ->     salary INT,
  ->     hire_date DATE,
  ->     city VARCHAR(100)
  -> );
Query OK, 0 rows affected (0.17 sec)

mysql> CREATE TABLE departments (
  ->     dept_name VARCHAR(100) PRIMARY KEY,
  ->     location VARCHAR(100)
  -> );
Query OK, 0 rows affected (0.21 sec)
```

Insert Values

```
mysql> INSERT INTO employees (id, name, department, salary, hire_date, city)
VALUES
  -> (1, 'Priya Sharma', 'Sales', 50000, '2022-08-15', 'Mumbai'),
  -> (2, 'Rahul Verma', 'Marketing', 60000, '2023-01-20', 'Delhi'),
  -> (3, 'Sneha Gupta', 'Sales', 55000, '2022-11-01', 'Kolkata'),
  -> (4, 'Arjun Singh', 'Finance', 70000, '2023-05-10', 'Chennai'),
  -> (5, 'Deepika Patel', 'Marketing', 62000, '2023-03-25', 'Bangalore');
Query OK, 5 rows affected (0.04 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from employees ;
+----+-----+-----+-----+-----+-----+
| id | name       | department | salary | hire_date | city       |
+----+-----+-----+-----+-----+-----+
| 1  | Priya Sharma | Sales      | 50000 | 2022-08-15 | Mumbai    |
| 2  | Rahul Verma  | Marketing  | 60000 | 2023-01-20 | Delhi     |
| 3  | Sneha Gupta  | Sales      | 55000 | 2022-11-01 | Kolkata   |
| 4  | Arjun Singh  | Finance    | 70000 | 2023-05-10 | Chennai   |
| 5  | Deepika Patel | Marketing  | 62000 | 2023-03-25 | Bangalore |
+----+-----+-----+-----+-----+-----+
5 rows in set (0.02 sec)
```

```
mysql> select * from departments ;
```

dept_name	location
Finance	South
HR	Central
IT	South
Marketing	West
Sales	North

```
5 rows in set (0.01 sec)
```

```
mysql> SELECT name, salary FROM employees;
```

name	salary
Priya Sharma	50000
Rahul Verma	60000
Sneha Gupta	55000
Arjun Singh	70000
Deepika Patel	62000

```
5 rows in set (0.01 sec)
```

```
mysql> SELECT name, salary FROM employees WHERE department = 'Sales';
```

name	salary
Priya Sharma	50000
Sneha Gupta	55000

```
2 rows in set (0.01 sec)
```

```
mysql> SELECT name, salary FROM employees WHERE salary > 60000;
+-----+-----+
| name      | salary |
+-----+-----+
| Arjun Singh | 70000 |
| Deepika Patel | 62000 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT name, hire_date FROM employees WHERE hire_date BETWEEN '2023-01-01' AND '2023-12-31';
+-----+-----+
| name      | hire_date |
+-----+-----+
| Rahul Verma | 2023-01-20 |
| Arjun Singh | 2023-05-10 |
| Deepika Patel | 2023-03-25 |
+-----+-----+
3 rows in set (0.01 sec)
```

```
mysql> SELECT DISTINCT department FROM employees;
+-----+
| department |
+-----+
| Sales      |
| Marketing  |
| Finance    |
+-----+
3 rows in set (0.02 sec)
```

```
mysql> SELECT name, salary FROM employees ORDER BY salary DESC;
+-----+-----+
| name      | salary |
+-----+-----+
| Arjun Singh | 70000 |
| Deepika Patel | 62000 |
| Rahul Verma | 60000 |
| Sneha Gupta | 55000 |
| Priya Sharma | 50000 |
+-----+-----+
5 rows in set (0.01 sec)
```

```
mysql> SELECT name FROM employees LIMIT 3 OFFSET 2;
```

name
Sneha Gupta
Arjun Singh
Deepika Patel

3 rows in set (0.01 sec)

```
mysql> SELECT name FROM employees LIMIT 5;
```

name
Priya Sharma
Rahul Verma
Sneha Gupta
Arjun Singh
Deepika Patel

5 rows in set (0.00 sec)

```
mysql> SELECT department, AVG(salary) AS average_salary FROM employees GROUP BY department;
```

department	average_salary
Sales	52500.0000
Marketing	61000.0000
Finance	70000.0000

3 rows in set (0.03 sec)

```
mysql> SELECT department, AVG(salary) AS average_salary FROM employees GROUP BY department HAVING  
AVG(salary) > 60000;
```

department	average_salary
Marketing	61000.0000
Finance	70000.0000

2 rows in set (0.02 sec)

```
mysql> SELECT e.name, e.department, d.location
-> FROM employees e
-> INNER JOIN departments d ON e.department = d.dept_name;
```

name	department	location
Priya Sharma	Sales	North
Rahul Verma	Marketing	West
Sneha Gupta	Sales	North
Arjun Singh	Finance	South
Deepika Patel	Marketing	West

5 rows in set (0.02 sec)

```
mysql> SELECT e.name, e.department, d.location
-> FROM employees e
-> LEFT JOIN departments d ON e.department = d.dept_name;
```

name	department	location
Priya Sharma	Sales	North
Rahul Verma	Marketing	West
Sneha Gupta	Sales	North
Arjun Singh	Finance	South
Deepika Patel	Marketing	West

5 rows in set (0.01 sec)

```
mysql> SELECT e.name, e.department, d.location
-> FROM employees e
-> RIGHT JOIN departments d ON e.department = d.dept_name;
```

name	department	location
Arjun Singh	Finance	South
NULL	NULL	Central
NULL	NULL	South
Deepika Patel	Marketing	West
Rahul Verma	Marketing	West
Sneha Gupta	Sales	North
Priya Sharma	Sales	North

7 rows in set (0.02 sec)

```
mysql> SELECT name FROM employees WHERE name LIKE 'A%';
```

```
+-----+
```

```
| name |
```

```
+-----+
```

```
| Arjun Singh |
```

```
+-----+
```

```
1 row in set (0.01 sec)
```

```
mysql> SELECT name FROM employees WHERE name LIKE '%n %';
```

```
+-----+
```

```
| name |
```

```
+-----+
```

```
| Arjun Singh |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> SELECT name, department FROM employees WHERE department IN ('Sales', 'Marketing');
```

```
+-----+-----+
```

```
| name | department |
```

```
+-----+-----+
```

```
| Priya Sharma | Sales |
```

```
| Rahul Verma | Marketing |
```

```
| Sneha Gupta | Sales |
```

```
| Deepika Patel | Marketing |
```

```
+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> SELECT name, department FROM employees WHERE department NOT IN ('Finance', 'IT');
```

```
+-----+-----+
```

```
| name | department |
```

```
+-----+-----+
```

```
| Priya Sharma | Sales |
```

```
| Rahul Verma | Marketing |
```

```
| Sneha Gupta | Sales |
```

```
| Deepika Patel | Marketing |
```

```
+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> SELECT name, salary FROM employees WHERE salary BETWEEN 55000 AND 70000;
```

```
+-----+-----+
```

```
| name | salary |
```

```
+-----+-----+
```

```
| Rahul Verma | 60000 |
```

```
| Sneha Gupta | 55000 |
```

```
| Arjun Singh | 70000 |
```

```
| Deepika Patel | 62000 |
```

```
+-----+-----+
```

```
4 rows in set (0.01 sec)
```

```
mysql> SELECT name FROM employees WHERE name IS NOT NULL;
```

name
Priya Sharma
Rahul Verma
Sneha Gupta
Arjun Singh
Deepika Patel

5 rows in set (0.01 sec)

```
-- UNION  
-> SELECT name, department , "Full Time" as status FROM employees WHERE department = 'Sales' ;
```

name	department	status
Ram Kumar	Sales	Trainee
Priya Sharma	Sales	Full Time
Sneha Gupta	Sales	Full Time

3 rows in set (0.01 sec)