1. **Query:**

SELECT* FROM employees;

Output:

Id	First_name	Last_name	Department	Salary	Hire_date	City
1	John	Doe	IT	55000	2018-06-15	New York
2	Jane	Smith	HR	48000	2019-07-20	Chicago
3	Mike	Johnson	Finance	60000	2017-09-30	Los Angeles
4	Sarah	Brown	IT	53000	2021-03-25	New York
5	David	White	Marketing	52000	2016-04-10	San Francisco
6	Emily	Davis	IT	62000	2015-02-14	Chicago
7	Robert	Wilson	Finance	59000	2019-10-01	Houston
8	Jessica	Moore	HR	51000	2018-05-22	Los Angeles
9	Daniel	Clark	Marketing	53000	2022-06-01	Chicago
10	Laura	Hall	IT	50000	2020-08-10	San Franciso

2. **Query:**

SELECT DISTINCT department FROM employees;

Output:

Department
IT
HR
Finance
Marketing

3. **Query:**

SELECT first_name,

last_name,

salary

FROM employees

ORDER BY salary DESC;

Output:

First_name	Last_name	Salary
Emily	Davis	62000
Mike	Johnson	60000
Robert	Wilson	59000

4. **Query:**

SELECT first_name,

last_name,

salary

FROM employees

ORDER BY salary

DESC LIMIT 5;

Output:

First_name	Last_name	Salary
Emily	Davis	62000
Mike	Johnson	60000
Robert	Wilson	59000
John	Doe	55000
Sarah	Brown	53000

5. **Query:**

SELECT first_name,

last_name,

department

FROM employees

WHERE department = 'IT';

Output:

First_name	Last_name	Department
John	Doe	IT
Sarah	Brown	IT

6. **Query:**

   SELECT first_name,

   last_name,

   department,

   salary

   FROM employees

   WHERE department = 'Finance'

   AND salary > 58000;

   Output:

First_name	Last_name	Department	Salary
Mike	Johnson	Finance	60000

7. **Query:**

   SELECT first_name,

   last_name,

   department

   FROM employees

   WHERE department = 'HR' OR department = 'Marketing';

   Output:

First_name	Last_name	Salary
Jane	Smith	HR
Jessica	Moore	HR
David	White	Marketing

8. **Query:**

SELECT first_name,

last_name,

department

FROM employees

WHERE NOT department = 'IT';

Output:

First_name	Last_name	Department
Jane	Smith	HR
Mike	Johnson	Finance

9. **Query:**

SELECT first_name,

last_name,

department

FROM employees

WHERE department IN ('HR', 'IT', 'Finance');

Output:

First_name	Last_name	Department
John	Doe	IT
Jane	Smith	HR
Robert	Wilson	Finance
Mike	Johnson	Finance

10. **Query:**

SELECT first_name,

last_name,

salary,

city

FROM

employees

WHERE department = 'IT' AND salary > 50000 AND city = 'New York';

Output:

First_name	Last_name	Department	Salary	City
John	Doe	IT	55000	New York

11. **Query:**

SELECT first_name,

last_name,

department,

salary

FROM employees WHERE (department = 'Finance' OR department = 'Marketing')

AND salary > 52000 ORDER BY salary DESC;

Output:

First_name	Last_name	Department	Salary
Mike	Johnson	Finance	60000
Robert	Wilson	Finance	59000

12. **Query:**

SELECT DISTINCT city

FROM employees

WHERE department NOT IN ('IT', 'HR');

Output:

City
Los Angeles
San Francisco
Houston
Chicago

13. **Query:**

SELECT first_name,

last_name,

department,

salary,

hire_date

FROM employees

WHERE department != 'Finance' AND salary > 50000

ORDER BY hire_date ASC;

Output:

First_name	Last_name	Department	Salary	Hire_date
Mike	Johnson	Finance	60000	2017-09-30
Robert	Wilson	Finance	59000	2019-10-01

14. **Query:**

SELECT first_name,

last_name,

department,

city

FROM employees

WHERE city IN ('Chicago', 'Los Angeles')

AND department IN ('IT', 'Marketing')

LIMIT 3;

Output:

First_name	Last_name	Department	City
Emily	Davis	IT	Chicago
Daniel	Clark	Marketing	Chicago

15. **Query:**

SELECT first_name,

last_name,

department,

salary,

city

FROM employees

WHERE (department = 'IT' OR department = 'Finance')

AND city != 'San Francisco'

AND salary > 55000 ORDER BY salary DESC

LIMIT 5;

Output:

First_name	Last_name	Department	Salary	City
Emily	Davis	IT	62000	Chicago
Mike	Johnson	Finance	60000	Los Angeles
Robert	Wilson	Finance	59000	Houston

Laura	Hall	IT	50000	San Francisco
John	Doe	IT	50000	New York