Exercise 1

1 SELECT *
FROM employees;

id	first_name	last_name department	department	salary	hiredate	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 fransisco
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 Angels
9	Daniel	Clack	Marketing	53000	2022-06-01	Chicago
10	Laura	Hall	IT	50000	2020-08-10	San francisco

2. SELECT
DISTINCT department
FROM employees;

department
IT
HR

Finance
Marketing

3. SELECT first_name,
   last_name,
   Salary
FROM employees
ORDER BY Salary DESC;

first_name	last_name	Salary
Emily	Davis	62000
Mike	Johnson	60 000
Robert	Wilson	59 000

4. SELECT first_name,
   last_name,
   Salary
FROM employees
ORDER BY Salary DESC
Limit 5;

first_name	Last_name	Salary
Emily	Davis	62 000
Mike	Johnson	60 000
Robert	Wilson	59 000
John	Doe	55 000
Sarah	Brown	53 000

5. SELECT first_name,
   last_name,
   department
FROM employees

WHERE department = "IT";

first-name	Last-name	department
John	Doe	IT
Sarah	Brown	IT

6. SELECT first-name,
          Last-name,
          department,
          Salary
FROM employees
WHERE department = 'finance'
AND salary 7 58000;

first-name	Last-name	department	salary
Mike	Johnson	finance	60000

7. SELECT first-name,
          Lastname,
          department
FROM employees
WHERE department = 'HR' OR department = 'Marketing';

first name	Last-name	department
Jane	Smith	HR
Jessica	Moore	HR
David	white	Marketing

8.   SELECT first-name,
             Last-name,
             department

```
FROM employees
WHERE department NOT 'IT';
```

first-name	last-name	department
Jane	Smith	HR
Mike	Johnson	finance
Sarah David	white	Marketing
Robert	Wilson	finance
Jessica	Moore	HR
Danel	Clark	Marketing

9.
```
SELECT first-name,
       last-name,
       department
FROM employees
WHERE department IN ('HR', 'IT'), 'finance');
```

first-name	last-name	department
John	Doe	IT
Jane	Smith	HR
Mike	Johnson	finance
Sarah	Brow	IT
Emily	Davis	IT
Robert	wilson	finance
Jessica	Moore	HR
Laura	Hall	IT

10.
```
SELECT first-name,
       last-name,
       department,
       Salary,
```

```sql
City
FROM employees
WHERE department = 'IT'
AND salary > 50000
AND city = 'New York';
```

first-name	last-name	department	Salary	City
John	Doe	IT	55000	new York

12.
```sql
SELECT DISTINCT city
   FROM employees
WHERE deparment NOT IN ('IT', 'HR');
```

City
Los Angeles
Houston
San francisco
Chicago

```
13  SELECT *
    FROM employees
    WHERE department <7 'finance'
    AND salary 7 50 000
    ORDER BY Hire-date ASC;
```

id	first_name	last_name	department	salary	hiredate
6	Emily	Davis	IT	62000	2015-02-14
5	David	White	Marketing	52000	2016-04-10
1	John	Doe	IT	55000	2018-06-15
8	Jessica	Moore	HR	51000	2018-05-22
4	Sara	Brown	IT	53000	2021-03-25

City
Chicago
Sanfrancisco
New york
Los Angeles
New York

```
14. SELECT first_name,
           last name,
           department,
           city
    FROM employees
    WHERE city IN ('Chicago', 'Los Angeles')
    AND department IN ('IT', 'Marketing')
    Limit 3;
```

first_name	last_name	departmet	city
Emily	Davis	IT	Chicago
Daniel	Clark	Marketing	Chicago