Ex.   1

Exercise 1

(1) Select statement
Select *
   From employees'

2) Select distinct statement
   Find all unique departments in employees table
   Select distict department From employees

   output

department
IT
HR
finance
Marketing

(3) Order by Statement
   Retrieve all employees' first and last names ordered by
                Salary in descending order

   Select first-name,
      last-name,
      Salary
   from employees
      order By Salary desc
      output

first-name	last-name	salary
Emily	Davis	62000
Mike	Johnson	60000
Robat	Wilson	59000

Limit statement
Retrieve top 5 highest-paid employees
    Select first_name,
           last_name,
           salary
    From employees
       Order by salary DESC
         Limit 5

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

Find employees who work in IT department
    Select first_name,
           last_name,
           department
    From employees
       WHERE department = 'IT';

first_name	last_name	department
John	Doe	IT
Sarah	Brown	IT

find employees who work in finance department A-
    have a salary greater than 58000
    Select first_name, last_name, department, Salary
        From employees
        where department = 'finance'
            AND salary > 58000;

7) Find employees who work in HR department OR Marketing dep
   Select first_name, last_name, department
           From employees
           WHERE department = 'HR' OR department = 'Marketing

   output

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

8) Find employees who do not work in IT depa
   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) 'Find employees who are in IT department
   Select first_name, last_name, department, salary, city
   From employees
           WHERE department = 'IT'
       AND salary > 50 000
       AND city = 'New York

First_name	Last_name	department	Salary	City
John	Doe	IT	55 000	New york

```sql
11) Select first_name, last_name, department, Salary
    From employees
        WHERE (department = 'finance' OR department = 'Marketing')
        AND salary > 52000
            order by salary desc;


12  Select distinct city
        From employees
            Where department Not IN ('IT', 'HR');


13  Select first_name, last_name, department, Salary, hire_date
        From employees
            Where department != 'finance'
        AND salary > 50000
            Order by hire_date ASC


14) Select first_name, last_name, department, city
        From employees
            where city IN ('Chicago', 'Los Angeles')
        AND department IN ('IT', 'Marketing')
            Limit 3;


15) select first_name, last_name, department, Salary, city
        from employees
            WHERE (department = 'IT' OR department = 'finance')
            AND city != 'San Fransisco'
            AND salary > 55000
            Order By salary Desc
                Limit 5;
```