

• Syntax:

```
SELECT columns
FROM table
WHERE expression
(SELECT coulmns
FROM table);
```

 Find the name (first_name, last_name) and the salary of the employees who have a higher salary than the employee whose last_name='Bull'.

 Find the name (first_name, last_name) of all employees who works in the IT department.

```
SELECT first_name, last_name
FROM employees
WHERE department_id
IN (SELECT department_id
     FROM departments
     WHERE department_name='IT');
```

 Find the name (first_name, last_name) of the employees who have a manager and worked in a USA based department.

 Find the name (first_name, last_name) of the employees who are managers.

```
SELECT first_name, last_name
FROM employees
WHERE (employee_id IN (SELECT manager_id FROM employees));
```

• Find the name (first_name, last_name), and salary of the employees whose salary is greater than the average salary.

```
SELECT first_name, last_name, salary
FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees);
```

 Find the name (first_name, last_name), and salary of the employees whose salary is equal to the minimum salary for their job grade.

 Find the name (first_name, last_name), and salary of the employees who earns more than the average salary and works in any of the IT departments.

```
SELECT first_name, last_name, salary
FROM employees
WHERE department_id IN (SELECT department_id
    FROM departments
    WHERE department_name LIKE 'IT%')
AND salary > (SELECT avg(salary)
    FROM employees);
```

• Find the name (first_name, last_name), and salary of the employees who earns more than the earning of Mr. Bell.

 Find the name (first_name, last_name), and salary of the employees who earn the same salary as the minimum salary for all departments.

 Find the name (first_name, last_name), and salary of the employees whose salary is greater than the average salary of all departments.

• Find the name (first_name, last_name) and salary of the employees who earn a salary that is higher than the salary of all the Shipping Clerk (JOB_ID = 'SH_CLERK'). Sort the results of the salary of the lowest to highest.

```
SELECT first_name,last_name, job_id, salary
FROM employees WHERE salary >
    ALL (SELECT salary FROM employees
    WHERE job_id = 'SH_CLERK') ORDER BY salary;
```

 Find the name (first_name, last_name) of the employees who are not supervisors.

```
SELECT b.first_name,b.last_name
FROM employees b WHERE NOT EXISTS
    (SELECT 'X' FROM employees a
    WHERE a.manager_id = b.employee_id);
```

 Display the employee ID, first name, last name, and department names of all employees.

```
SELECT employee_id, first_name, last_name,
(SELECT department_name FROM departments d
WHERE e.department_id = d.department_id)
department
FROM employees e ORDER BY department;
```

 Display the employee ID, first name, last name, salary of all employees whose salary is above average for their departments.

```
SELECT employee_id, first_name
FROM employees AS A
WHERE salary > ( SELECT AVG(salary) FROM employees
     WHERE department_id = A.department_id);
```

Fetch even numbered records from employees table.

```
SET @i = 0; SELECT i, employee_id
FROM (SELECT @i := @i + 1 AS i, employee_id
        FROM employees) a WHERE MOD(a.i, 2) = 0;
```

Find the 5th maximum salary in the employees table.

Find the 4th minimum salary in the employees table.

Select last 10 records from a table.

```
SELECT * FROM (SELECT * FROM employees

ORDER BY employee_id DESC LIMIT 10) sub

ORDER BY employee_id ASC;
```

 List the department ID and name of all the departments where no employee is working.

```
SELECT * FROM departments

WHERE department_id NOT IN (select
    department_id FROM employees);
```

Get 3 maximum salaries.

Get 3 minimum salaries.

Get 5th max salaries of employees.