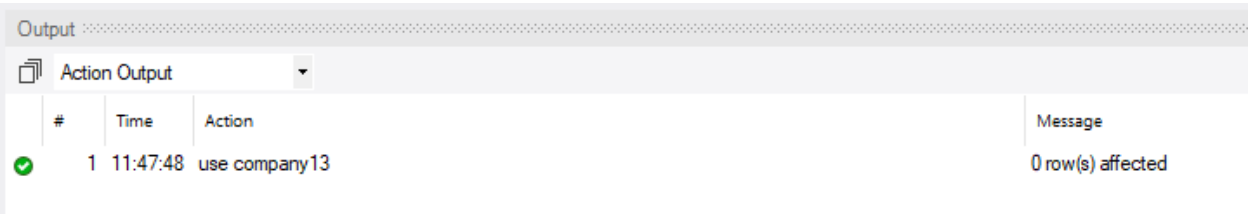
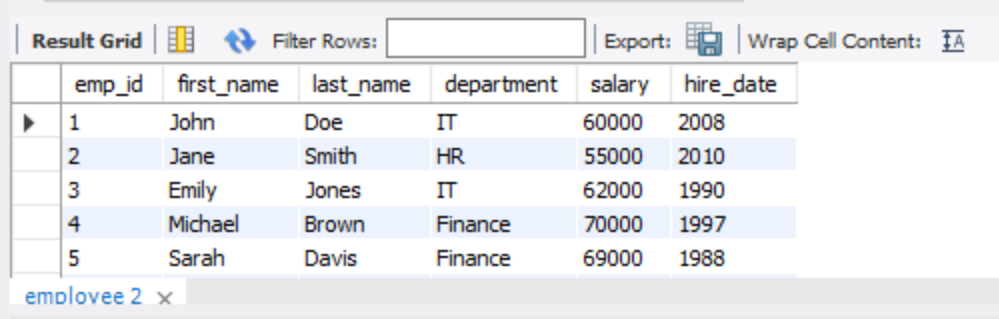
| emp_id | first_name | last_name | department | salary | hire_date |
|---|---|---|---|---|---|
| 1 | John | Doe | IT | 60000.00 | 2019-01-10 |
| 2 | Jane | Smith | HR | 55000.00 | 2018-03-05 |
| 3 | Emily | Jones | IT | 62000.00 | 2020-07-23 |
| 4 | Michael | Brown | Finance | 70000.00 | 2016-05-14 |
| 5 | Sarah | Davis | Finance | 69000.00 | 2017-11-18 |
| 6 | David | Johnson | HR | 48000.00 | 2021-09-10 |

```
create database company13;

use company13;
```




```
create table employee(

emp_id int,

first_name varchar(61),

last_name varchar(62),

department varchar(63),

salary int,

hire_date int);

select * from employee;

insert into employee(emp_id,first_name,last_name,department,salary,hire_date)values

(1,"John","Doe","IT",60000.00, 2019-01-10),

(2,"Jane","Smith","HR",55000.00, 2018-03-05),

(3,"Emily","Jones","IT",62000.00, 2020-07-23),

(4,"Michael","Brown","Finance",70000.00, 2016-05-14),

(5,"Sarah","Davis","Finance",69000.00, 2017-11-18),

(6,"David","Johnson","HR",48000.00, 2021-09-10);
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| emp_id | first_name | last_name | department | salary | hire_date |
|---|---|---|---|---|---|
| 1 | John | Doe | IT | 60000 | 2008 |
| 2 | Jane | Smith | HR | 55000 | 2010 |
| 3 | Emily | Jones | IT | 62000 | 1990 |
| 4 | Michael | Brown | Finance | 70000 | 1997 |
| 5 | Sarah | Davis | Finance | 69000 | 1988 |

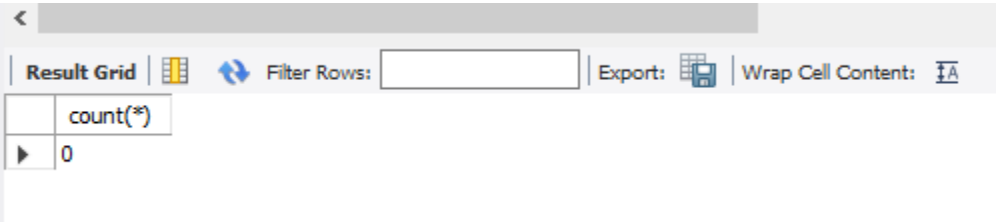
employee 2

```
select * from employee;

/*1.Find the average salary of employees in each department.*/

select avg(salary) from employee;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| avg(salary) |
|---|
| 60666.6667 |

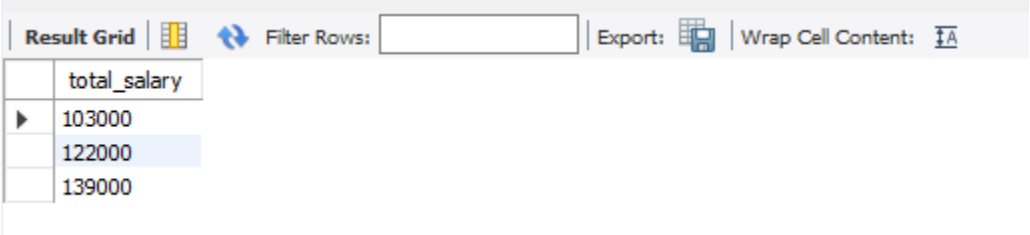
```
/*2.Find the total number of employees hired after 2019.*/

select count(*) from employee where hire_date>'2019-12-31';
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| count(*) |
|---|
| 0 |

```
/*3.List the departments and the total salary of all employees in each department,

ordered by the total salary.*/

select sum(salary) as total_salary from employee group by department order by total_salary;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

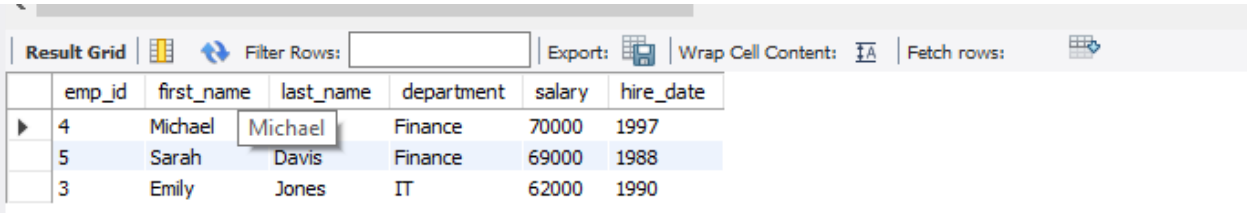
| total_salary |
|---|
| 103000 |
| 122000 |
| 139000 |

```
/*4.Find the highest salary in the finance department.*/

select max(salary) from employee where department='finance';
```

| max(salary) |
| --- |
| 70000 |

/*5.Get the top 3 highest-paid employees.*/

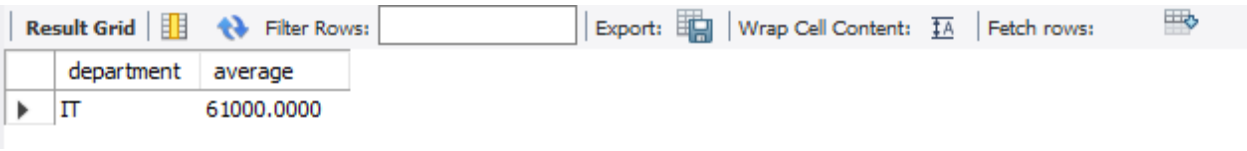
select * from employee order by salary desc limit 3;



| emp_id | first_name | last_name | department | salary | hire_date |
| --- | --- | --- | --- | --- | --- |
| 4 | Michael | Michael | Finance | 70000 | 1997 |
| 5 | Sarah | Davis | Finance | 69000 | 1988 |
| 3 | Emily | Jones | IT | 62000 | 1990 |

/*6.Find the department with the minimum average salary.*

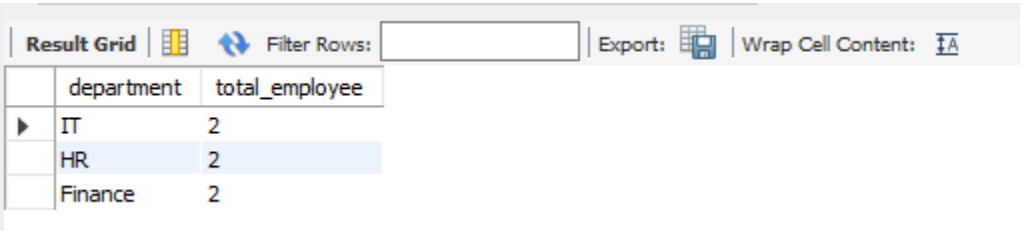
select department, avg(salary) as average from employee group by department order by 'average_salary' asc limit 1;



| department | average |
| --- | --- |
| IT | 61000.0000 |

/*7.Display the total number of employees in each department,ordered by the number of employees.*/

select department, count(*) as total_employee from employee group by department order by total_employee desc;



| department | total_employee |
| --- | --- |
| IT | 2 |
| HR | 2 |
| Finance | 2 |

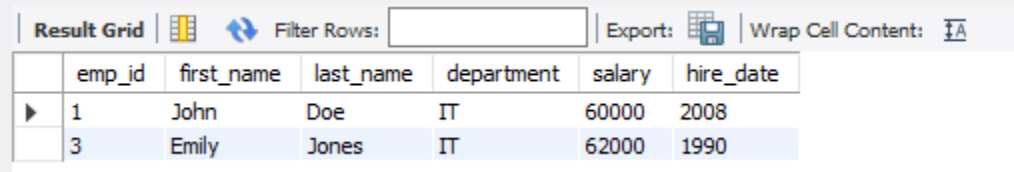
/*8.Find the average salary of employees who were hired before 2020.*/

select avg(salary) as average_salary from employee where hire_date < '2020-01-01';

| average_salary |
| --- |
| 60666.6667 |

/*9.List of employees in the IT department ordered by hire date,with the most recently hired employees first.*/

select * from employee where department='IT' order by hire_date desc;



| emp_id | first_name | last_name | department | salary | hire_date |
| --- | --- | --- | --- | --- | --- |
| 1 | John | Doe | IT | 60000 | 2008 |
| 3 | Emily | Jones | IT | 62000 | 1990 |

/*10.Find the sum of salaries for all employees hired after january 1,2019,ordered by salary.*/

select sum(salary) as total_salary from employee where hire_date>2019-01-01 order by salary;

| total_salary |
| --- |
| NULL |

/*11.Get the employees with the lowest salary in the HR department.*/

select min(salary) from employee where department = 'HR';

| min(salary) |
| --- |
| 48000 |

/*12.Find the total salary paid to employees in each department,but limit the result to the top 2 highest-paying departments.*/

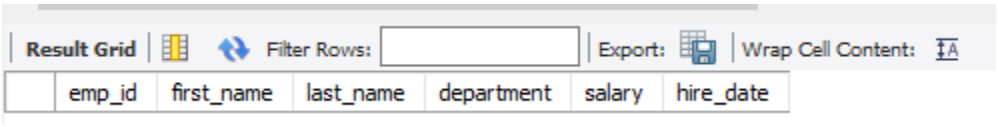
select department, sum(salary) as total_salary from employee group by department order by total_salary desc limit 2;

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| department | total_salary |
|---|---|
| Finance | 139000 |
| IT | 122000 |

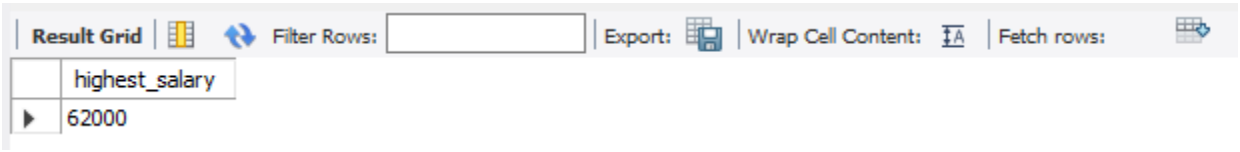
/*13.List all employees hired after 2018, ordered by salary, and show only the first 4 employees.*/

select * from employee where hire_date>2018 order by salary limit 4;




/*14.Find the highest salary in the IT department,but limit the results to the top 1 result.

select max(salary) as highest_salary from employee where department='IT' order by highest_salary desc limit 1;




/*15.Get the average salary of employees in each department and list only departments with an

average salary greater than $60,000.*/

select department, avg(salary) as average_salary from employee group by department having avg(salary) > 60000;