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

```
select department, avg(salary) from worker
group by department;
```

department	avg(salary)
IT	60666.6667
HR	51500.0000
Finance	69500.0000

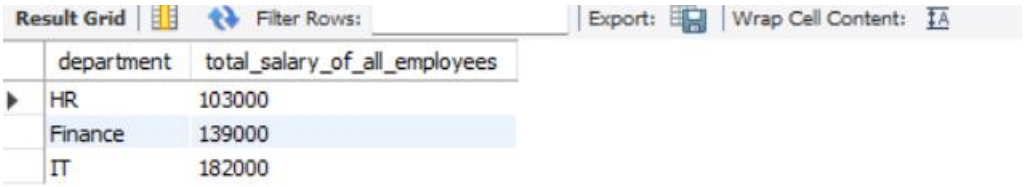
2. Find the total number of employees hired after 2019.

```
select count(emp_id) as total_emp_hire_after_2019 from  worker
where hire_date>'2019-12-31';
```

total_emp_hire_after_2019
2

3. List the departments and the total salary of all employees in each departmnt ordered by the total salary.

```
select department, sum(salary) as total_salary_of_all_employees from worker
group by department
order by sum(salary);
```



department	total_salary_of_all_employees
HR	103000
Finance	139000
IT	182000

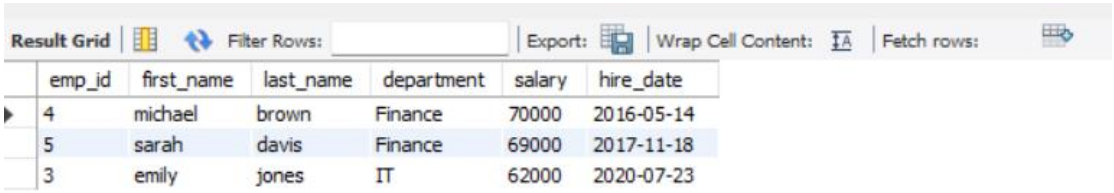
4. Find the higest salary in the finance department.

```
select max(salary) as higest_salary from worker
where department='finance';
```

higest_salary
70000

5. get the top 3 higest-paid employees.

```
select * from worker
order by (salary) desc
limit 3;
```



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

emp_id	first_name	last_name	department	salary	hire_date
4	michael	brown	Finance	70000	2016-05-14
5	sarah	davis	Finance	69000	2017-11-18
3	emily	jones	IT	62000	2020-07-23

6. Find the department with the minimum average salary.

```
select department, avg(salary) as average_salary from worker
group by department
order by average_salary asc
limit 1;
```

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

department	average_salary
HR	51500.0000

7.display the total number of employees in each deapartment,orderes by the number of employees.

```
select department, count(emp_id) as number_of_employees from worker
group by department
order by number_of_employees;
```

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

department	number_of_employees
HR	2
Finance	2
IT	3

8. find the average salary of employes who were hired before2020.

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

9. List the names of employees in the IT deapartment ordered by hire date, with the most recently hired employees first.

```
select first_name from worker
where department = 'IT'
order by hire_date desc
limit 1;
```

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

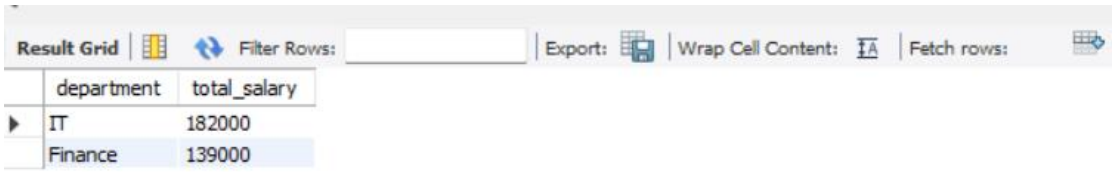
```
select sum(salary) as total_salary from worker
where hire_date>'2019-01-01'
order by (salary);
```

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

```
select* from worker
where department = 'HR department'
order by salary asc;
```

12. Find the total salary paid to employees in each deaprtment, but limit the result to the top 2 higest-paying deparatments.

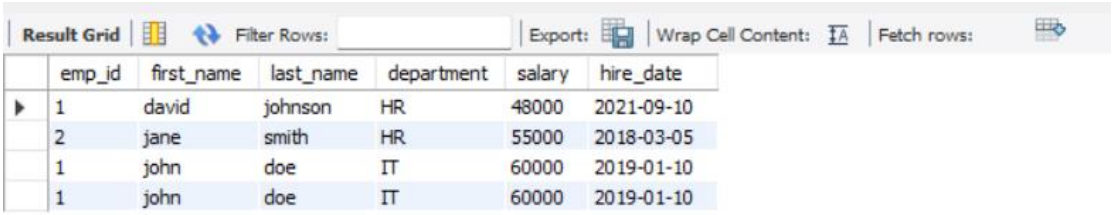
```
select department, sum(salary) as total_salary from worker
group by department
order by total_salary desc
limit 2;
```



department	total_salary
IT	182000
Finance	139000

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

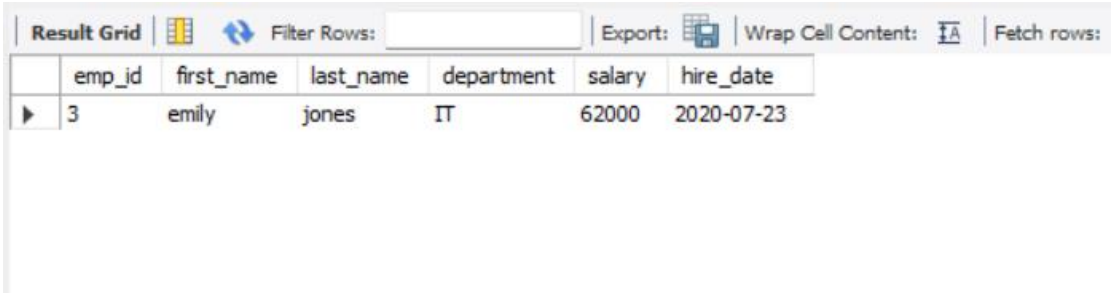
```
select *from worker
where hire_date > '2018-01-01'
order by salary asc
limit 4 ;
```



emp_id	first_name	last_name	department	salary	hire_date
1	david	johnson	HR	48000	2021-09-10
2	jane	smith	HR	55000	2018-03-05
1	john	doe	IT	60000	2019-01-10
1	john	doe	IT	60000	2019-01-10

14. Find the higest salary in the IT deaprtment, but limit the results to the top 1 result.

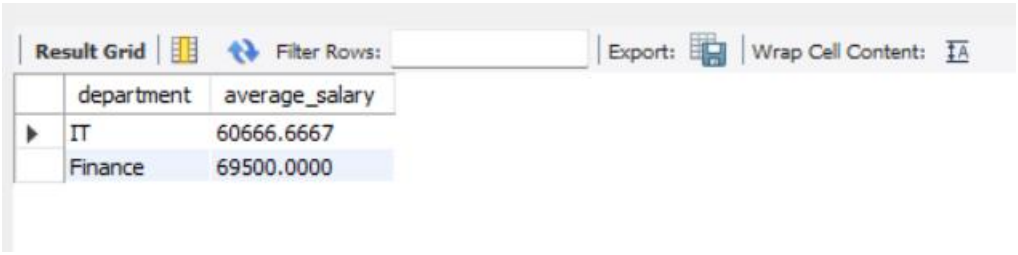
```
select * from worker
where department = 'IT'
order by salary desc
limit 1;
```



emp_id	first_name	last_name	department	salary	hire_date
3	emily	jones	IT	62000	2020-07-23

###15. Get the average salary of employees in each deapartment and list only deaprtments with an averge salary grater than $60000.

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



department	average_salary
IT	60666.6667
Finance	69500.0000