

**27.** select department\_id , avg(salary) as avg\_salary from Employee

Group by department\_id

Having avg(salary)>55000

**28.** select Year(hire\_date), count(\*) from Employee

Group by Year(hire\_date)

Having count(\*)>1

**29.** select department\_id, sum(salary) as total\_salary from Employee

Group by department\_id

Having sum(salary)< 100000

**30.** select department\_id, max(salary) as total\_salary from Employee

Group by department\_id

Having max(salary)>75000

#### **Order By Queries (5):**

**31.** select \* from Employee

Order by salary ASC

**32.** select \* from Employee

Order by age DESC

**33.** select \* from Employee

Order by hire\_date ASC

**34.** select \* from Employee

Order by department\_id,salary

**35.** select department\_id, sum(salary) from Employee

Group by department\_id

Order by department\_id, sum(salary)

#### **Join Queries (10):**

**36.** select Employee.name , Department.name from Employee

Join Department on Employee.department\_id = Department.department\_id

**37.** select Project.name , Department.name from Project

Join Department on Project.department\_id = Department.department\_id

**38.** select Employee.name as Employee\_Name, Project.name as Project\_Name from Employee

Join Project on Employee.department\_id = Project.department\_id

**39.** select Employee.name, Department.name from Employee

Join Department on Department.department\_id = Employee.department\_id

**40.**

**41.** select \* from Employee where emp\_id not in (  
select Employee.emp\_id from Employee  
Join Project P on Employee.department\_id = P.department\_id  
);

**42.**

**43.**

**44.**

**45.**

#### **Nested and Corelated Queries(10):**

**46.** select \* from Employee where salary=(select max(salary) from Employee)

**47.** select \* from Employee where salary >(select avg(salary) from Employee)

**48.** select max(salary) as second\_highest\_salary from Employee  
where salary < ( select max(salary) from Employee)

**49.**

**50.** select E.emp\_id, E.name, E.salary, D.name from Employee E  
Join Department D on E.department\_id = D.department\_id  
where E.salary>(  
select avg(salary) from Employee  
where department\_id = E.department\_id  
)

**51.** select max(salary) from Employee  
where salary < (select max(salary) from Employee)

**52.** select \* from Employee where age >(  
select max(age) from Employee where department\_id = (  
select department\_id from Department where name= 'HR'  
)  
)

**53.** select D.name , avg(E.salary) as avg\_salary from Employee E  
join Department D on E.department\_id = D.department\_id  
Group by D.name

Having avg(E.salary)>55000

**55.** select \* from Employee

```
where hire_date = (  
    select hire_date from Employee  
    where name = 'Jane Smith'  
)
```

**56.** select sum(salary) as Total\_salary from Employee where Year(hire\_date)='2020'

**57.**

**58.** select name from Department where department\_id=(

```
select department_id from Employee  
Group by department_id  
Having count(emp_id)>1 and avg(salary)>55000  
)
```

**Select employees order by their department and then by their salary**

**Select all departments and their employees, including departments without employee**