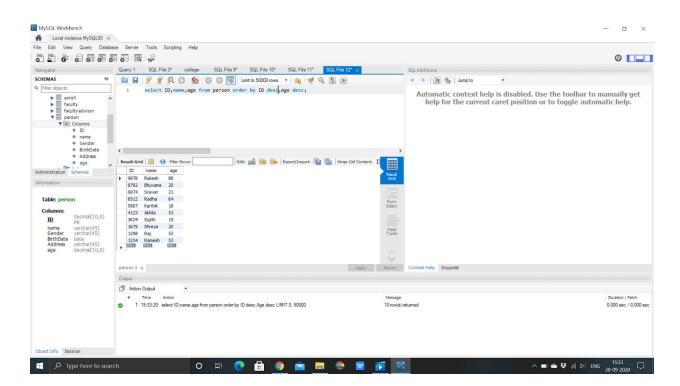
# DBMS Assignment 4

## 1. Order by Clause

a)Table person is selected based on ID descending order and Age Descending Order.

#### Query:

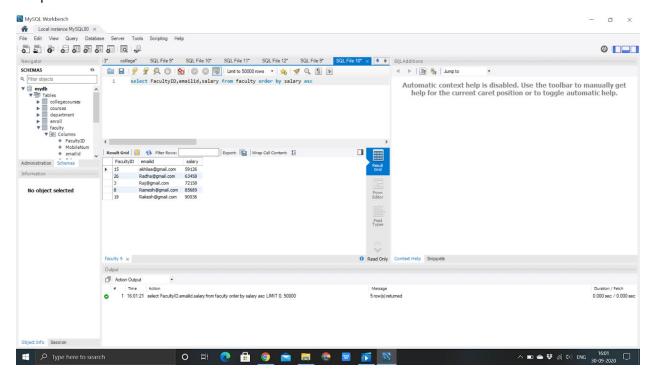
select ID,name,age from person order by ID desc,Age desc;



b)Table faculty is selected based on increasing order of salary.

#### Query:

select FacultyID,emailid,salary from faculty order by salary asc

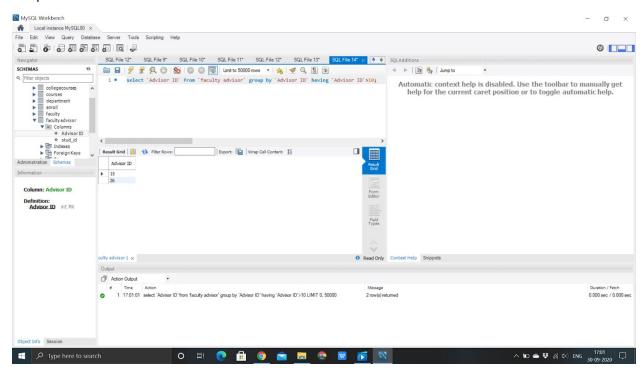


## 2. Group by and having

a)Using Group by and having clause Advisor ID'S >10 was selected

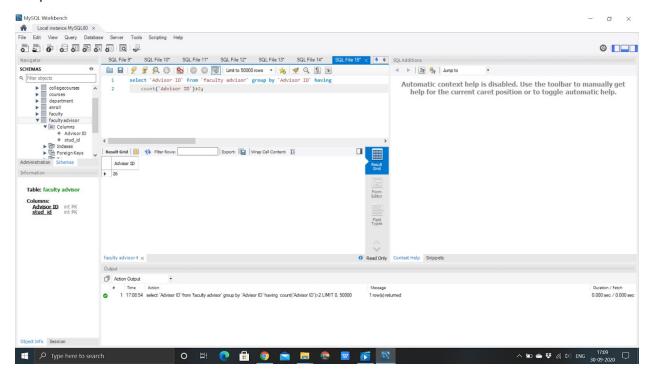
#### Query:

select 'AdvisorID' from 'facultyadvisor' group by 'AdvisorID' having 'AdvisorID'>10;



b)Selecting Advisors from Faculty Advisor Table who is the advisor for more than 2 students.

#### Query:

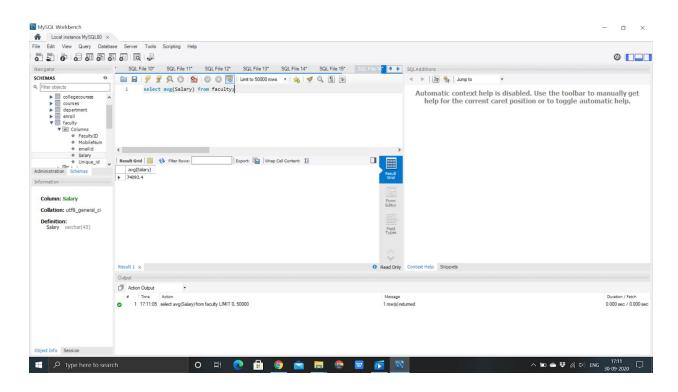


## 3. Aggregate functions

a) Calculating Average Salary using Aggregate Function Average.

Query:

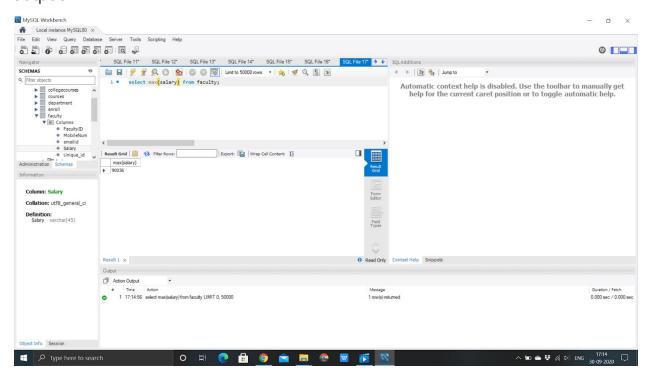
select avg(Salary) from faculty;



### b)Selected Max Salary using Aggregate Function Max.

#### Query:

#### select max(salary) from faculty;

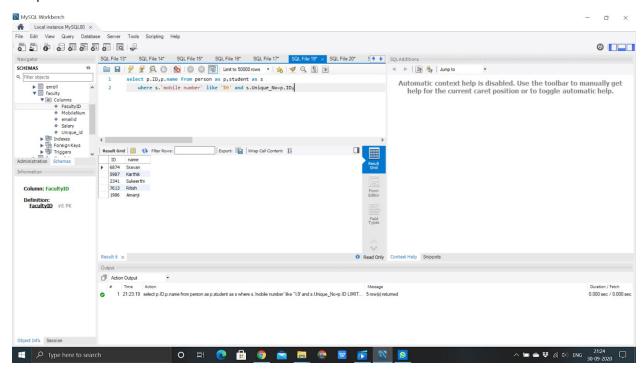


## 4. Logical operators especially with LIKE

a)Selecting students whose mobile numbers is like %9(ending with 9)

Query:

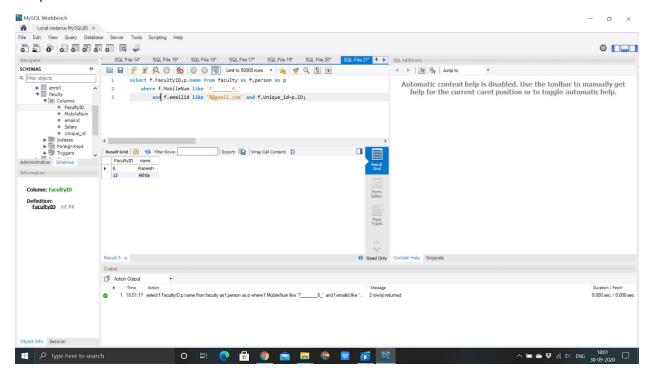
select p.ID,p.name from person as p,student as s where s.`mobile number` like '%9' and s.Unique\_No=p.ID;



b)Selecting faculty from a faculty table whose mobile number like 7\_\_\_\_\_6\_ and mail id like %@gmail.com.

#### Query:

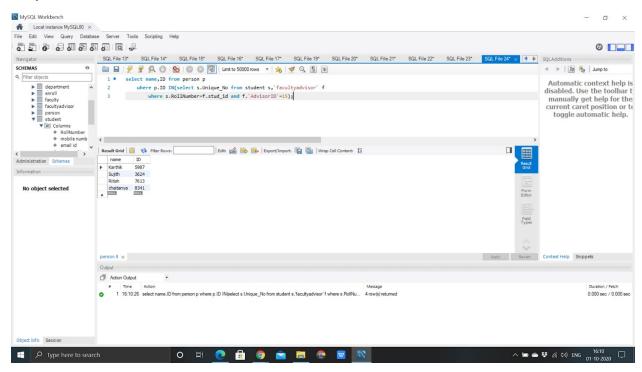
select f.FacultyID,p.name from faculty as f,person as p
where f.MobileNum like '7\_\_\_\_\_6\_'
and f.emailid like '%@gmail.com' and f.Unique\_id=p.ID;



- 5. At least 4 Nested queries specific to your Database, out of which at least 2 should have multiple subquery.
- a)Selecting students whose advisor id=15

#### Query:

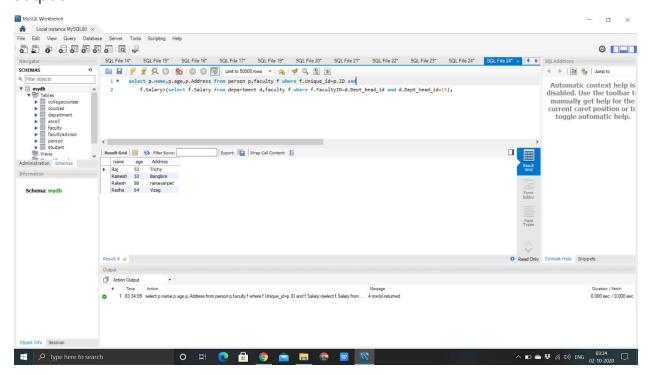
select name,ID from person p
 where p.ID IN(select s.Unique\_No from student s,`facultyadvisor` f
 where s.RollNumber=f.stud\_id and f.`AdvisorID`=15);



b)Selecting faculty whose salary is greater than the department head of CSE.

#### Query:

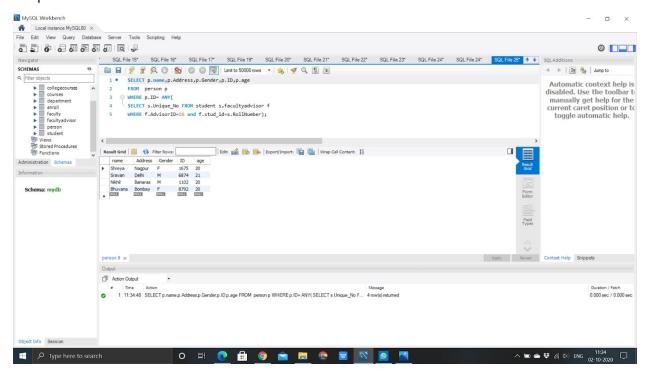
select p.name,p.age,p.Address from person p,faculty f where f.Unique\_id=p.ID and f.Salary>(select f.Salary from department d,faculty f where f.FacultyID=d.Dept\_head\_id and d.Dept\_head\_id=15);



#### c)Selecting students whose Advisor Radha(AdvisorID=26)

#### Query:

SELECT p.name,p.Address,p.Gender,p.ID,p.age
FROM person p
WHERE p.ID= ANY(
SELECT s.Unique\_No FROM student s,facultyadvisor f
WHERE f.AdvisorID=26 and f.stud\_id=s.RollNumber);



## d)Selecting Students who have enrolled for course CN(Course\_id=306) and Faculty Akhila(faculty\_id=15)

#### Query:

#### select \* from student

where RollNumber in(select distinct student\_id from enroll where course\_id=306 and faculty\_id=15)

