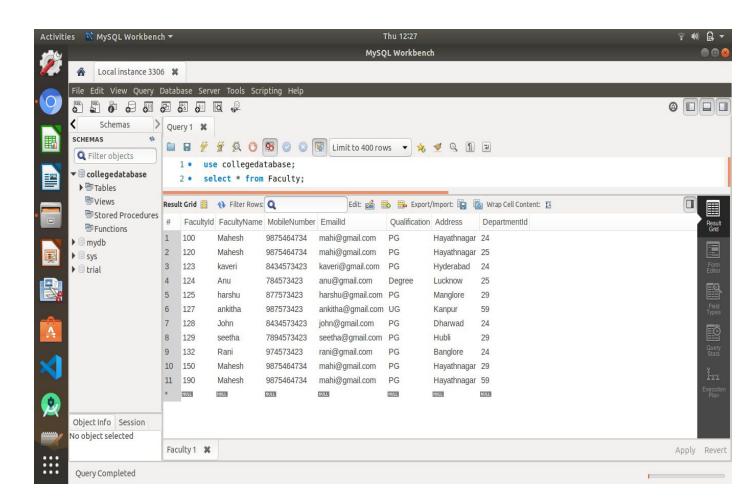
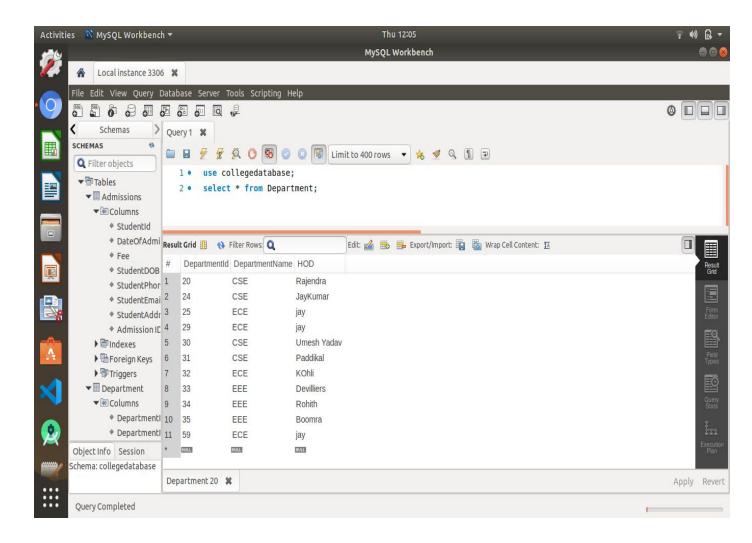
Assignment-4

Tables that are used for writing queries:

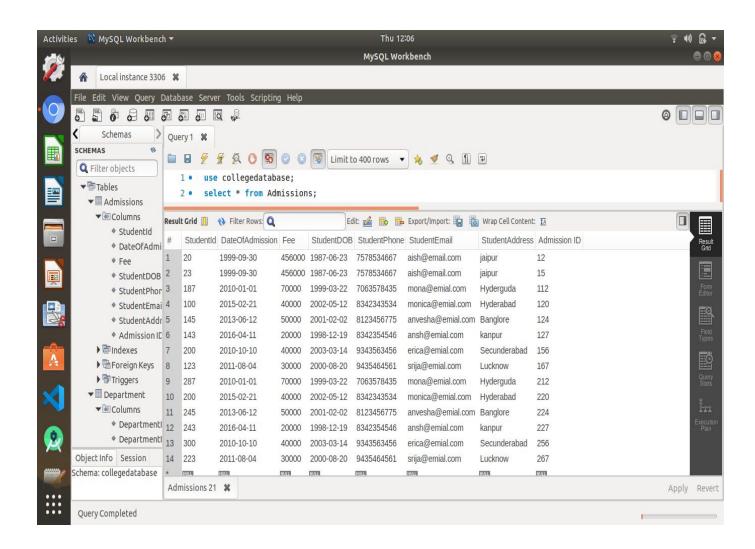
Faculty:



Department:



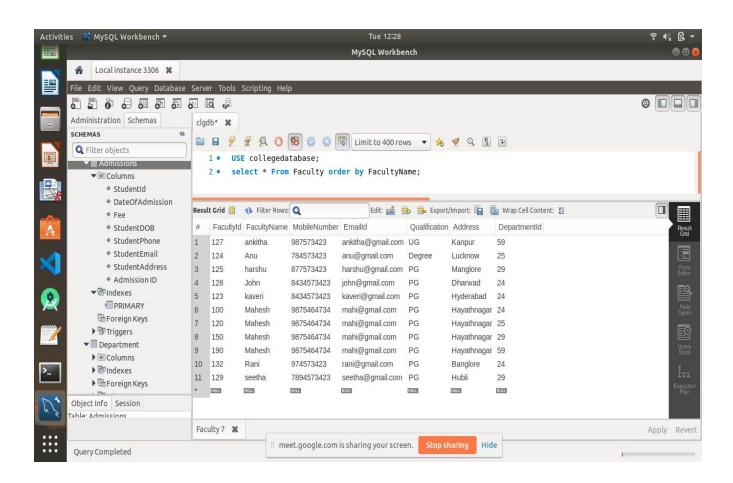
Admissions:



Question 1: Order by clause:

Query: Select * from Faculty order by FacultyName;

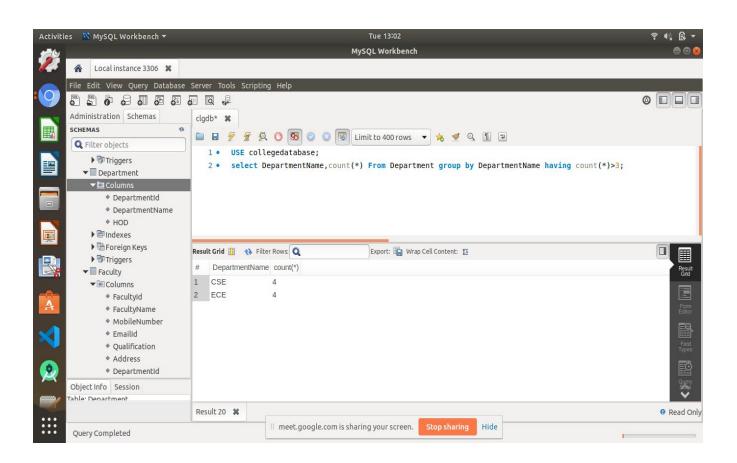
Explanation: ordered in ascending order of faculty names



Question 2: Group by and having

Query: Select DepartmentName,count(*) From Department group by DepartmentName having count(*)>3;

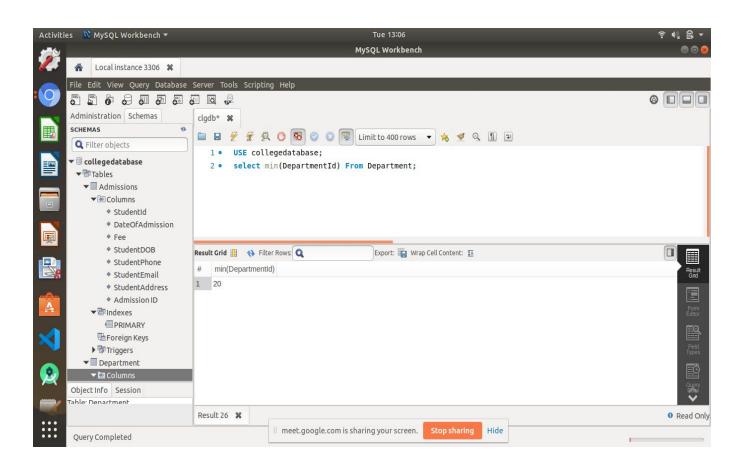
Explanation: Group by Departmentname and those have occurrences more than 3.



Question 3: Aggregate Functions

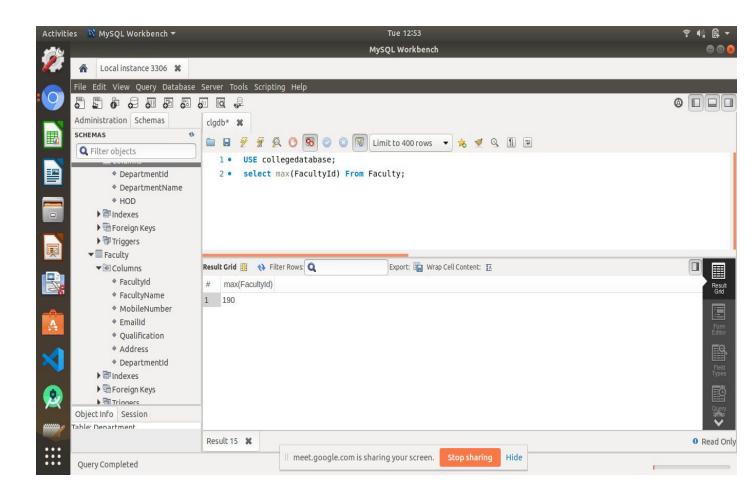
a).Query: Select min(DepartmentId) From Department;

Explanation: gives minimum departmentId



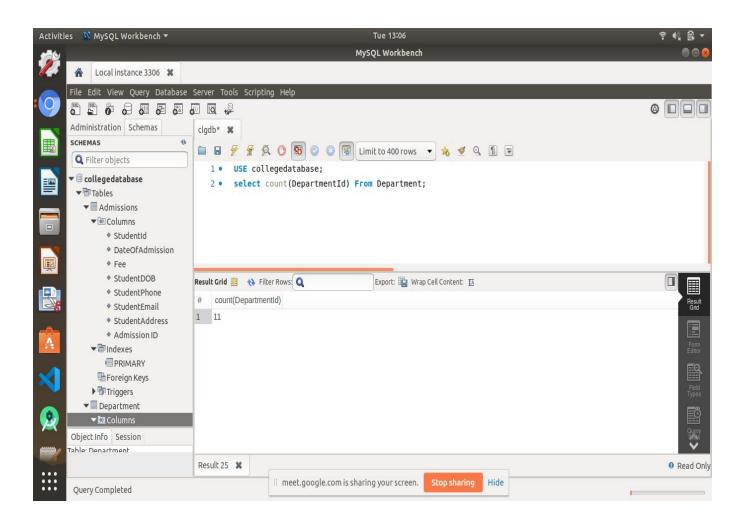
b).Query: Select max(FacultyId) From Faculty;

Explanation: gives maximum FacultyId



c).Query: Select count(DepartmentId) From Department;

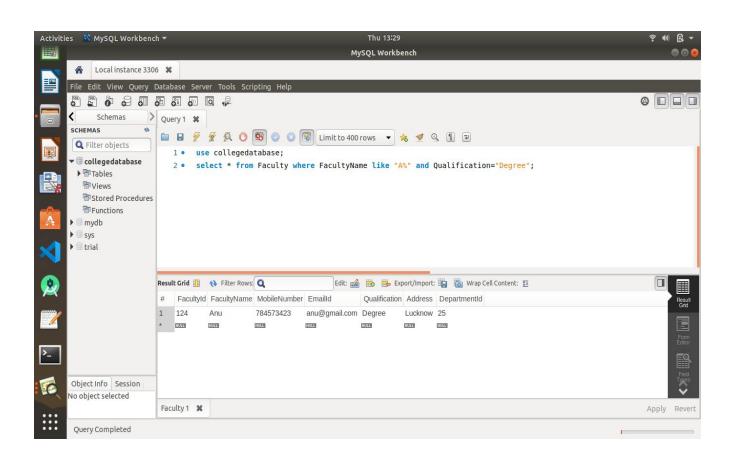
Explanation: gives number of entries in department table



Question 4: Logical operators especially with LIKE

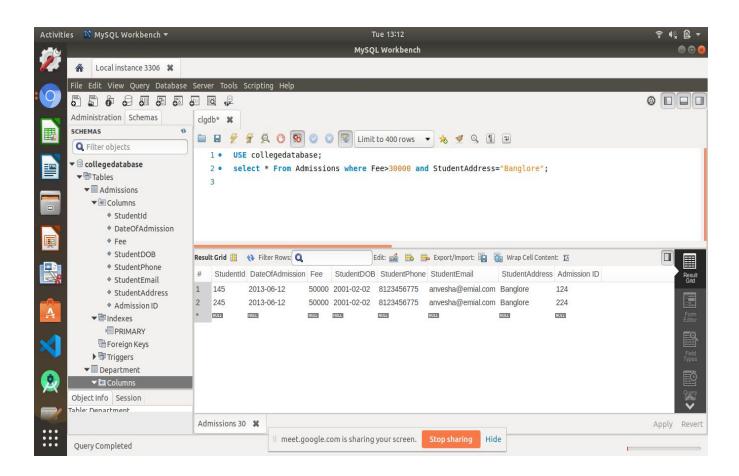
a).Query: select * from Faculty where FacultyName like "A%" and Qualification="Degree";

Explanation: FacultyName starting with letter A and qualification degree.



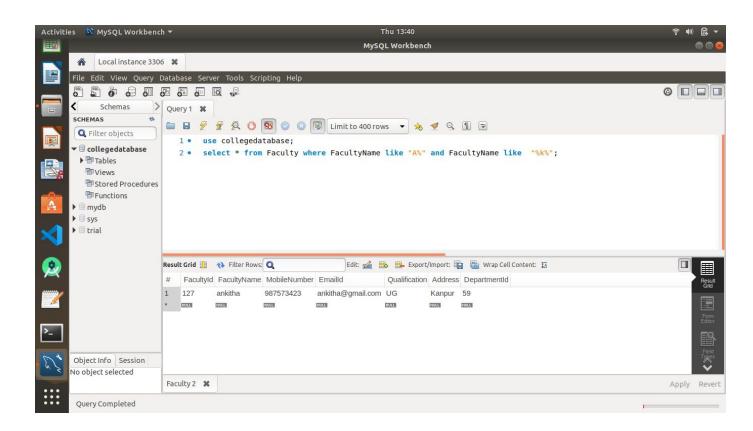
b).Query: select * from Admissions where Fee>30000 and StudentAddress="Bangalore";

Explanation: gives Student details whose fee is greater than 30000 and stays in Bangalore.



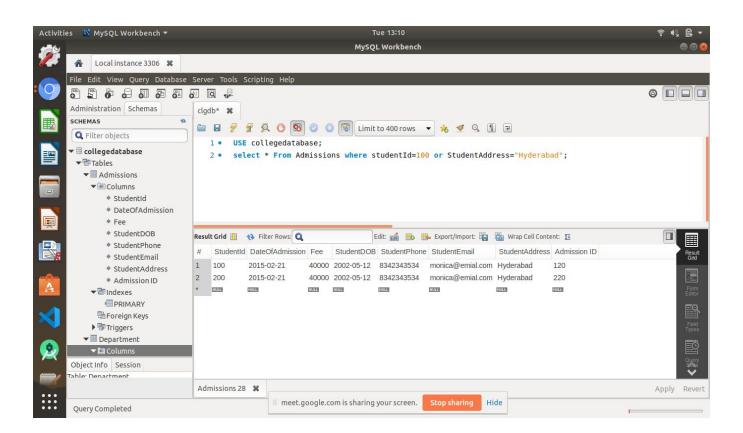
c).Query: select * from Faculty where FacultyName like "A%" and FacultyName like "%k%";

Explanation: FacultyName starting with letter A and contains letter k in FacultyName

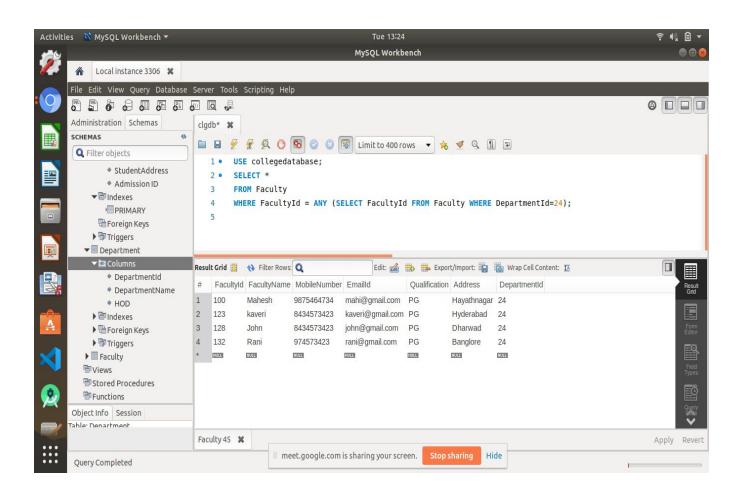


d).Query: select * from Admissions where Fee>30000 and StudentAddress="Bangalore";

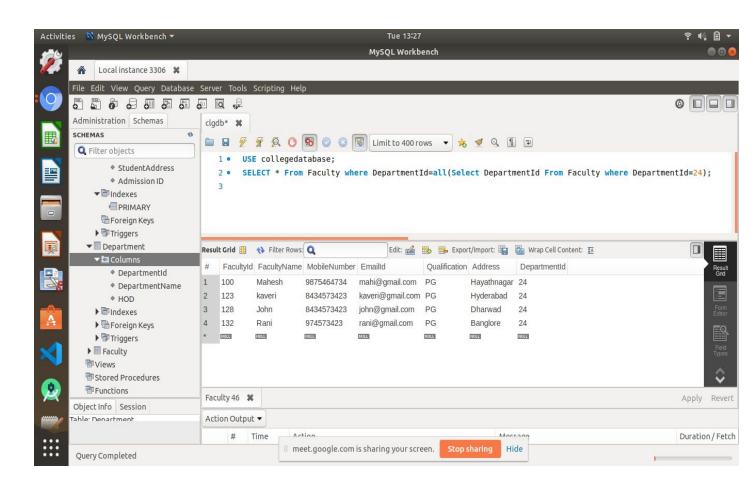
Explanation: gives Student details whose id is 100 or or who stays in Hyderabad.



e).Query: select * from Faculty where FacultyId= ANY(select FacultyId from Faculty where DepartmentId=24);

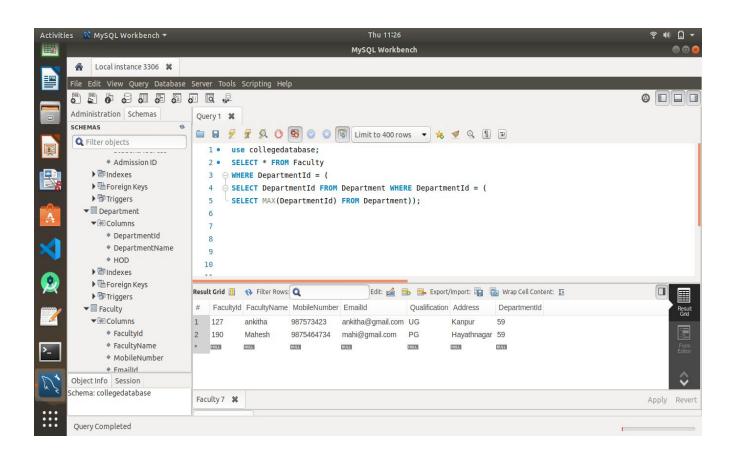


f).Query: select * from Faculty where DepartmentId=
ALL(select DepartmentId from Faculty where DepartmentId=24);

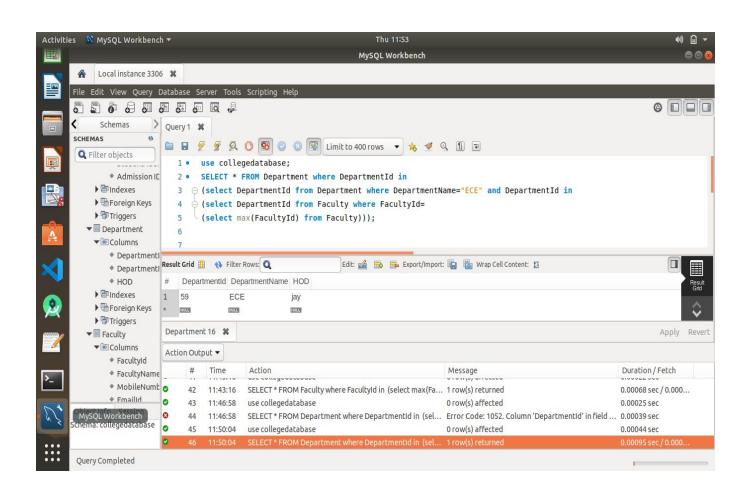


Question 4: At least 4 Nested queries specific to your Database, out of which at least 2 should have multiple subquery.

```
a).Query:
select * from Faculty where DepartmentId=
(select DepartmentId From
Department where DepartmentId=
(select MAX(DepartmentId) from Department));
```

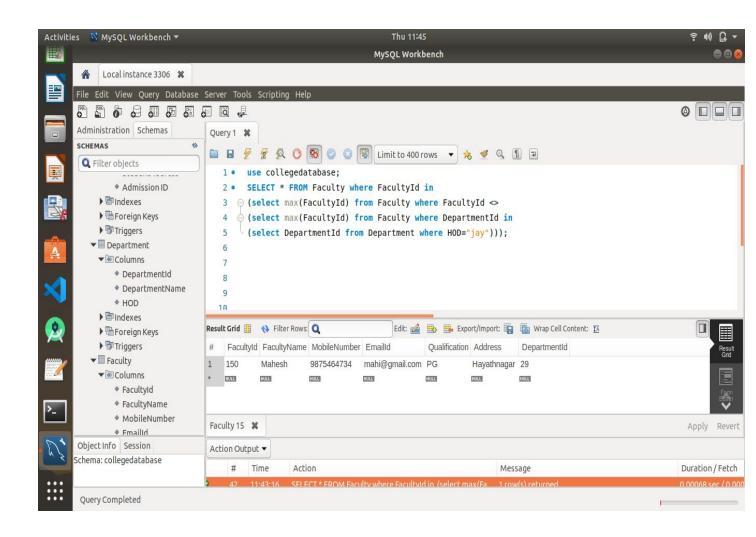


b).Query:
select * from Department
where DepartmentId in
(select DepartmentId from Department where
DepartmentName="ECE" and DepartmentId is
(select DepartmentId from Faculty where FacultyId=
(select max(FacultyId) from Faculty)));



c).Query:

select * from Faculty where FacultyId in (select max(FacultyId) from Faculty where FacultyId <> (select max(FacultyId) from Faculty where DepartmentId in (select DepartmentId from Department where HOD="jay")));



d).Query:

Select * from Faculty where DepartmentId= any(select DepartmentId From Faculty where DepartmentId=25);

