SQL Query Report(Lab 6)

```
-- task 1

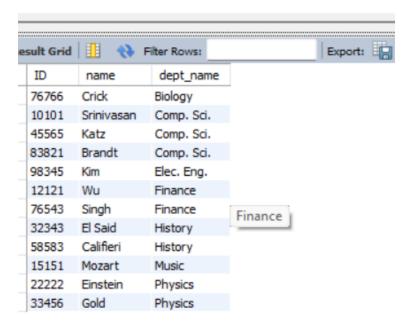
CREATE VIEW Advisor_Selection AS

SELECT Instructor.ID, Instructor.name, Department.dept_name

FROM Instructor

JOIN Department ON Instructor.dept_name = Department.dept_name;
```

1 • select * from Advisor_Selection;



```
-- task 2

CREATE VIEW Student_Count AS

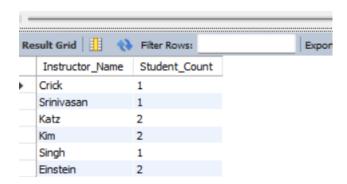
SELECT Advisor_Selection.name AS Instructor_Name, COUNT(Advisor.s_ID) AS Student_Count

FROM Advisor_Selection

JOIN Advisor ON Advisor_Selection.ID = Advisor.i_ID

GROUP BY Advisor_Selection.name;
```

1 • select * from Student_Count;



```
-- task 3
-- Create roles
CREATE ROLE Student;
CREATE ROLE CourseTeacher;
CREATE ROLE HeadOfDepartment;
CREATE ROLE Administrator;
-- Students can view advisor and course information
GRANT SELECT ON Advisor TO Student;
GRANT SELECT ON Course TO Student;
-- Course Teachers can view student and course information
GRANT SELECT ON Student TO CourseTeacher;
GRANT SELECT ON Course TO CourseTeacher;
-- Heads of Departments inherit Course Teacher privileges
-- and can add instructors
GRANT CourseTeacher TO HeadOfDepartment;
GRANT INSERT ON Instructor TO HeadOfDepartment;
-- Administrators can view department
-- and instructor information
-- and update 'department budgets'
GRANT SELECT ON Department TO Administrator;
GRANT SELECT ON Instructor TO Administrator;
GRANT UPDATE(budget) ON Department TO Administrator;
```

```
CREATE USER 'student_user' IDENTIFIED BY 'pias46';
CREATE USER 'teacher_user' IDENTIFIED BY 'pias46';
CREATE USER 'hod_user' IDENTIFIED BY 'pias46';
CREATE USER 'admin_user' IDENTIFIED BY 'pias46';
GRANT Student TO 'student_user';
GRANT CourseTeacher TO 'teacher_user';
GRANT HeadOfDepartment TO 'hod_user';
GRANT Administrator TO 'admin_user';
```