SQL QUERIES

1) Prepare database based on ER model and insert Sample data

Create database

```
create database StudentDatabase;
use StudentDatabase;
```

Creating table course_management

```
create table course_management(
    course_id INT NOT NULL auto_increment,
    course_name varchar(100),
    primary key(course_id)
);
```

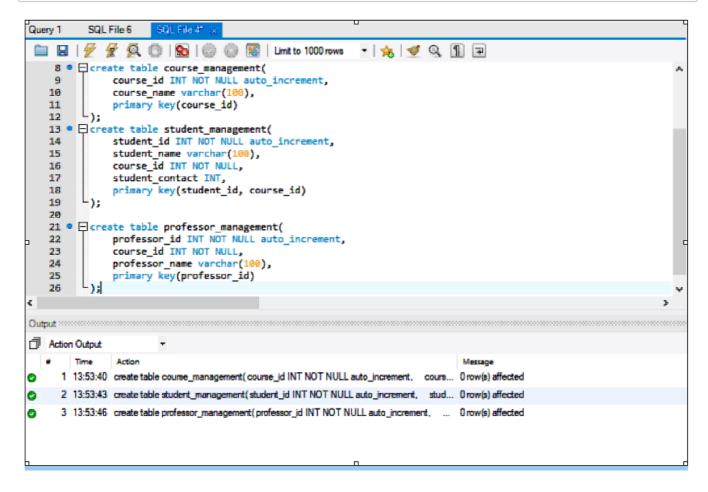
Creating table student_management

```
create table student_management(
```

```
student_id INT NOT NULL auto_increment,
    student_name varchar(100),
    course_id INT NOT NULL,
    student_contact INT,
    primary key(student_id, course_id)
);
```

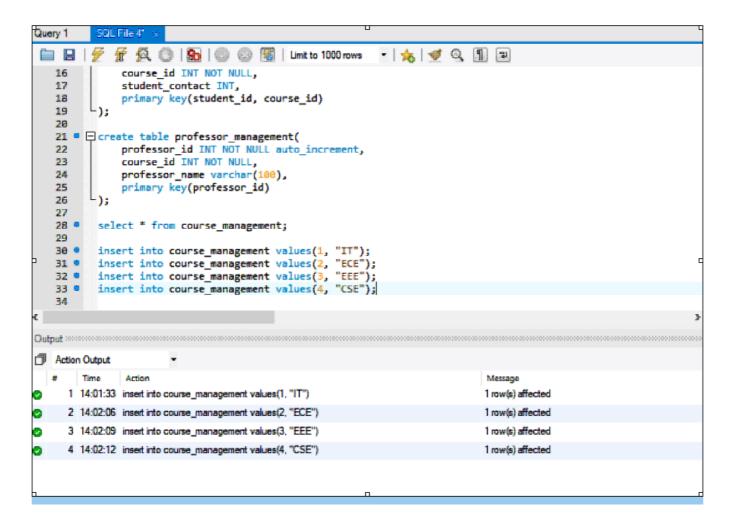
Creating table professor_managment

```
create table professor_management(
    professor_id INT NOT NULL auto_increment,
    course_id INT NOT NULL,
    professor_name varchar(100),
    primary key(professor_id)
);
```



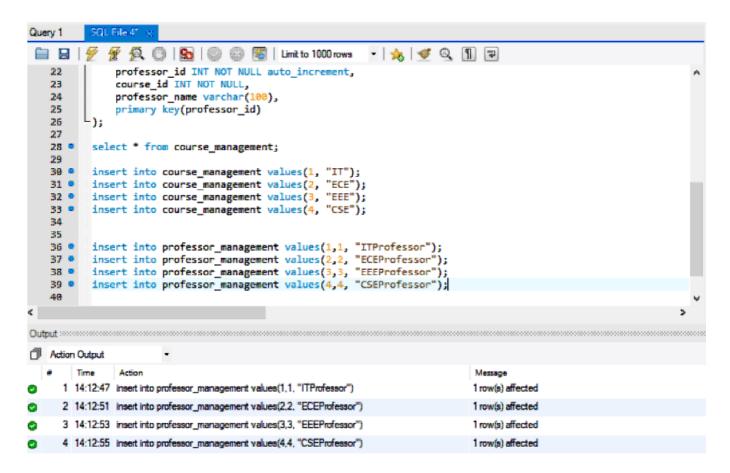
Inserting data in course_management

```
insert into course_management values(1, "IT");
insert into course_management values(2, "ECE");
insert into course_management values(3, "EEE");
insert into course_management values(4, "CSE");
```



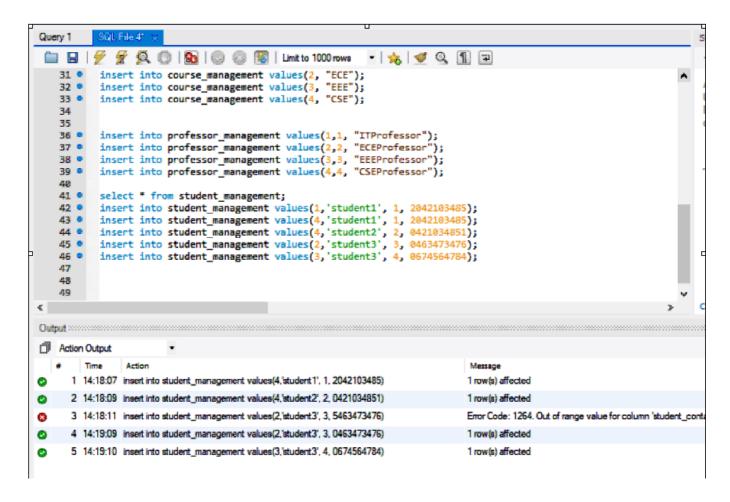
Inserting data into professor_managment

```
insert into professor_management values(1,1, "ITProfessor");
insert into professor_management values(2,2, "ECEProfessor");
insert into professor_management values(3,3, "EEEProfessor");
insert into professor_management values(4,4, "CSEProfessor");
```



Inserting data into student_management

```
insert into student_management values(1,'student1', 1, 2042103485);
insert into student_management values(4,'student1', 1, 2042103485);
insert into student_management values(4,'student2', 2, 0421034851);
insert into student_management values(2,'student3', 3, 0463473476);
insert into student_management values(3,'student3', 4, 0674564784);
```



Display tables

show tables;

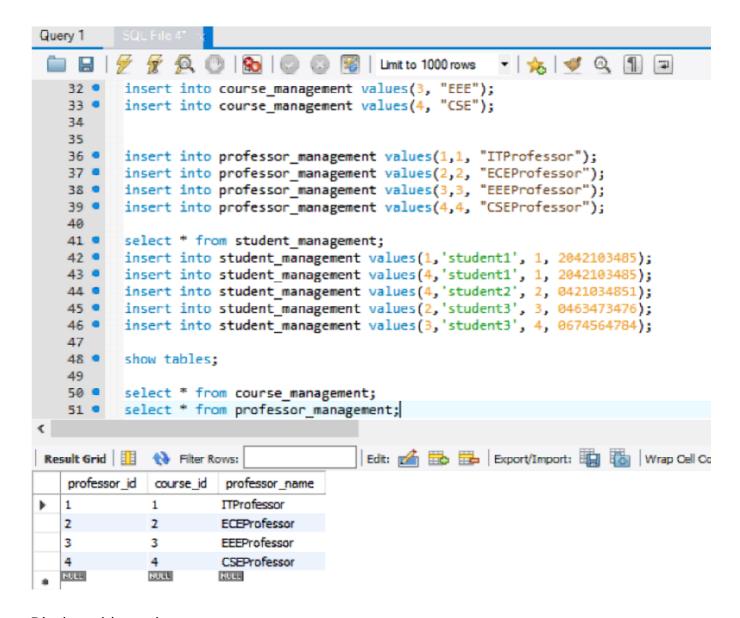
```
Query 1
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    35
            insert into professor_management values(1,1, "ITProfessor");
    36
            insert into professor_management values(2,2, "ECEProfessor");
insert into professor_management values(3,3, "EEEProfessor");
insert into professor_management values(4,4, "CSEProfessor");
    37 •
    38 •
    39 .
    48
    41 •
            select * from student_management;
            insert into student_management values(1, 'student1', 1, 2042103485);
    42 🥊
    43 .
            insert into student_management values(4, 'student1', 1, 2042103485);
    44 0
            insert into student_management values(4,'student2', 2, 0421034851);
    45
            insert into student_management values(2,'student3', 3, 0463473476);
    46
            insert into student_management values(3,'student3', 4, 0674564784);
    47
    48 📮
            show tables;
    49
    58
    51
Result Grid | Fiter Rows:
                                           Export: Wrap Cell Content: TA
    Tables in studentdatabase
   course_management
   professor_management
   student_management
```

Display table course_management

```
select * from course_management;
             insert into student_management values(4, 'student1', 1, 2042103485);
insert into student_management values(4, 'student2', 2, 0421034851);
insert into student_management values(2, 'student3', 3, 0463473476);
insert into student_management values(3, 'student3', 4, 0674564784);
    43 🔻
    44 .
    45 .
    46 •
    47
    48 .
              show tables;
    49
    50 •
              select * from course_management;
              select * from professor_management;
    51 0
              select * from student_management;
    52 0
    53
                                                           | Edit: 💰 🖶 🖶 | Export/Import: 🏭 👸 | Wrap Cell Content: 🔣
course_id course_name
                IT
   2
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                CSE
   $10.4L
                HULL
```

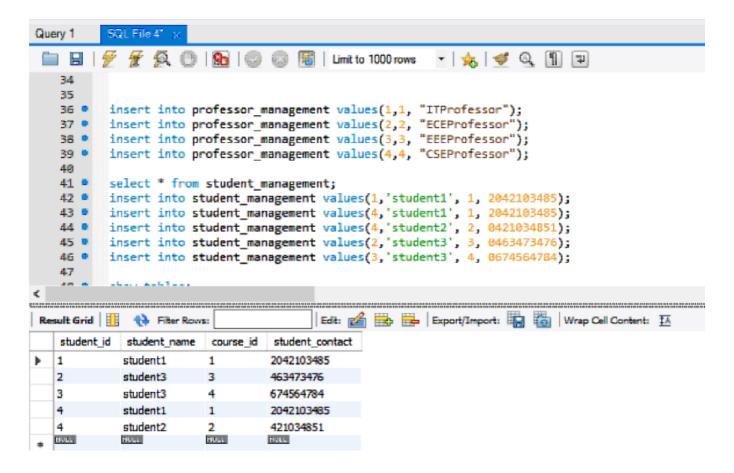
Display table professor_management

```
select * from professor_management;
```



Display table student_management

```
select * from student_management;
```

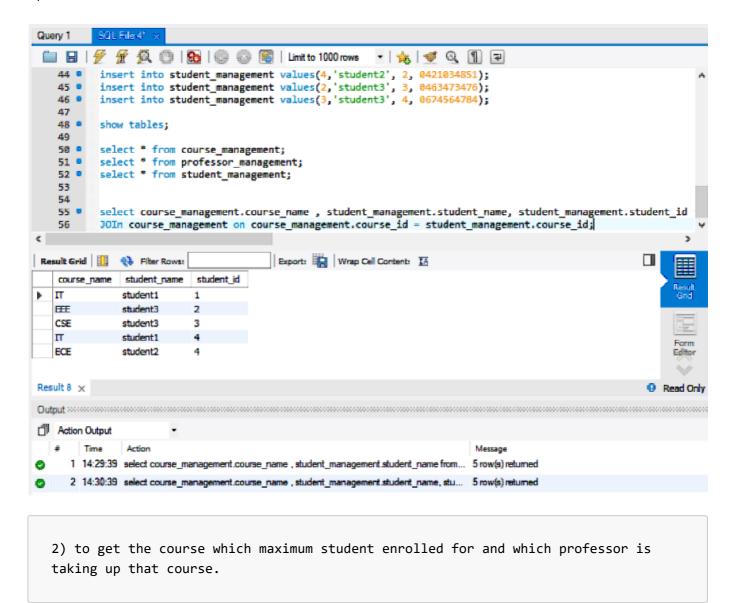


2) SQL queries:

1) provide student details with which courses he/she enrolled for.

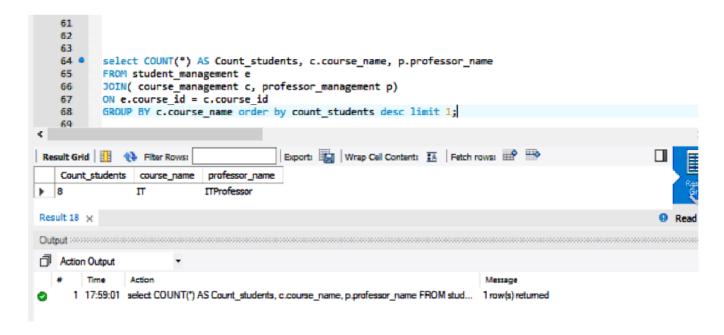
Display the course which maximum students enrolled for and which professor is taking the course

```
select course_management.course_name , student_management.student_name,
student_management.student_id from student_management INNER
Join course_management on course_management.course_id =
student_management.course_id;
```



Display the course with highest number of enrolled students

```
select COUNT(*) AS Count_students, c.course_name, p.professor_name
FROM student_management e
JOIN( course_management c, professor_management p)
ON e.course_id = c.course_id
GROUP BY c.course_name order by count_students desc limit 1;
```



3) Write a procedure which accepts Student id as input and output would be the professor details for the courses he enrolled for.

Procedure which accepts Student id as input and outputs the professor details for the courses he enrolled for

calling the procedure

```
call GetProfessorDetails(4);
```

