Information System Management Lab
BCOM 307

Assignment #29

Submitted by:

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Assignment No. 29
Unit No:

Course/Subject Code: BCOM 307 **Subject Title: Information System Management Lab**
Issue Date **Last Date of Submission:**

Instructions for Students:

1. **All Questions are Compulsory.**
2. The student should attach proper cover page for each assignment clearly mentioning theAssignment No.
3. Each assignment should be prepared by the student individually with proper explaination andscreenshots.
4. A4 size ruled sheets should be used for the assignment.
5. Assignment pages should be serially numbered at the bottom of page.

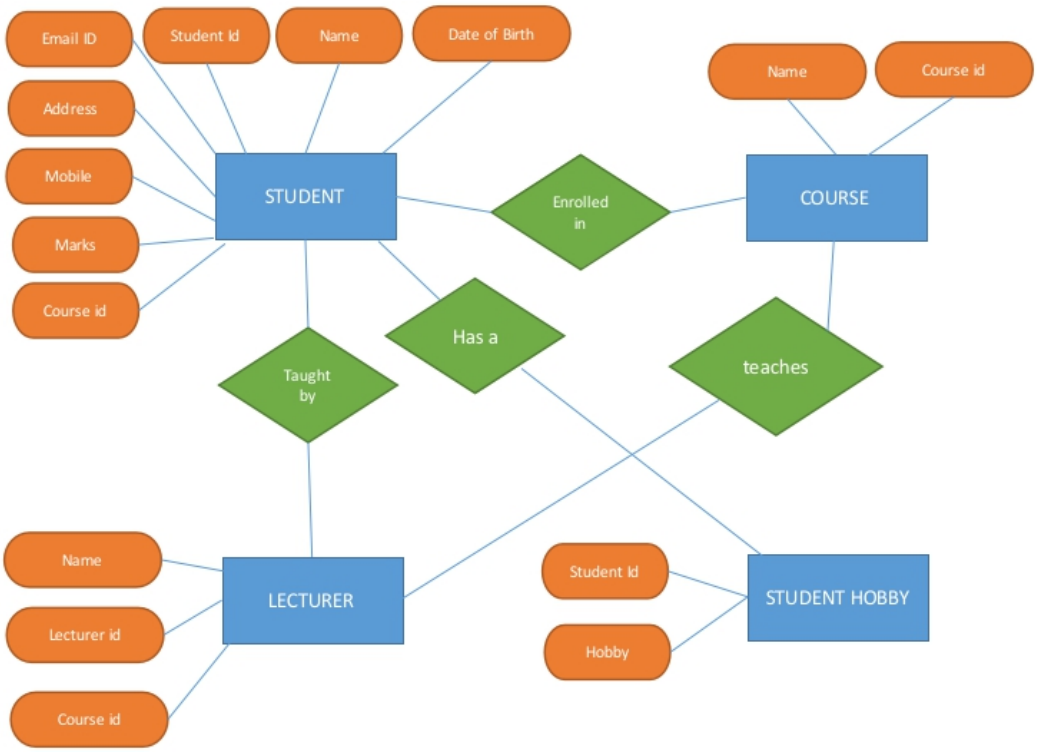
During online education mode, upload scanned copy of the complete assignment including cover page latest by due date.

Question No.	Question	CO No.
1	Draw an ER diagram for an Educational Institute and convert it into a relational table.	**CO1, CO2, CO6**

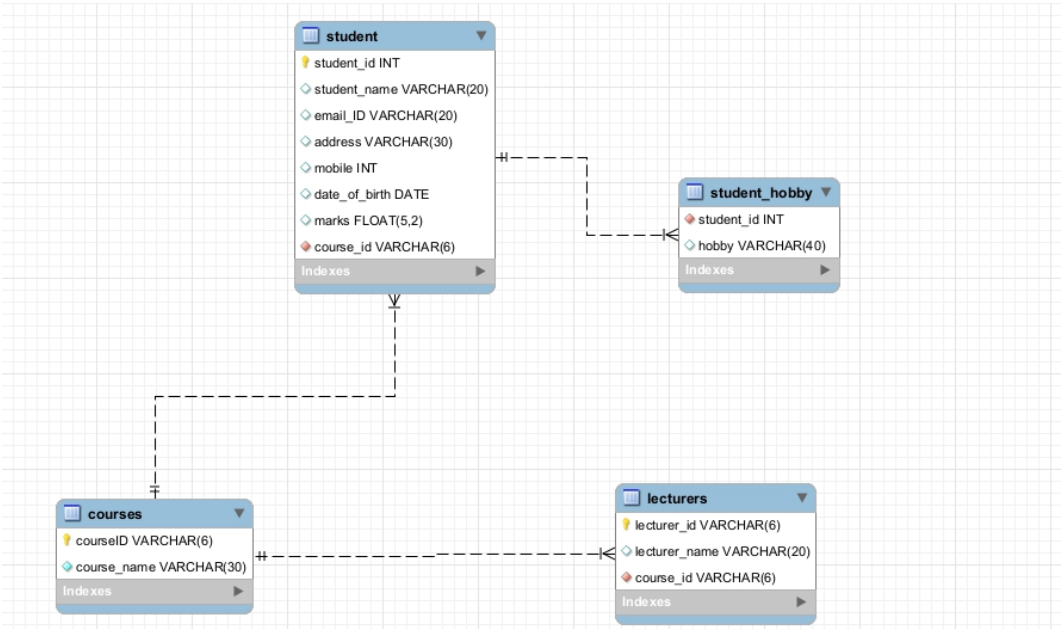
ASSIGNMENT 29 - ER Diagram to Relational Model

Task 1 : Draw an ER diagram for an Educational Institute and convert it into a relational table.

This task can be completed using the **CREATE TABLE** Command. First, we need to make the ER Diagram.

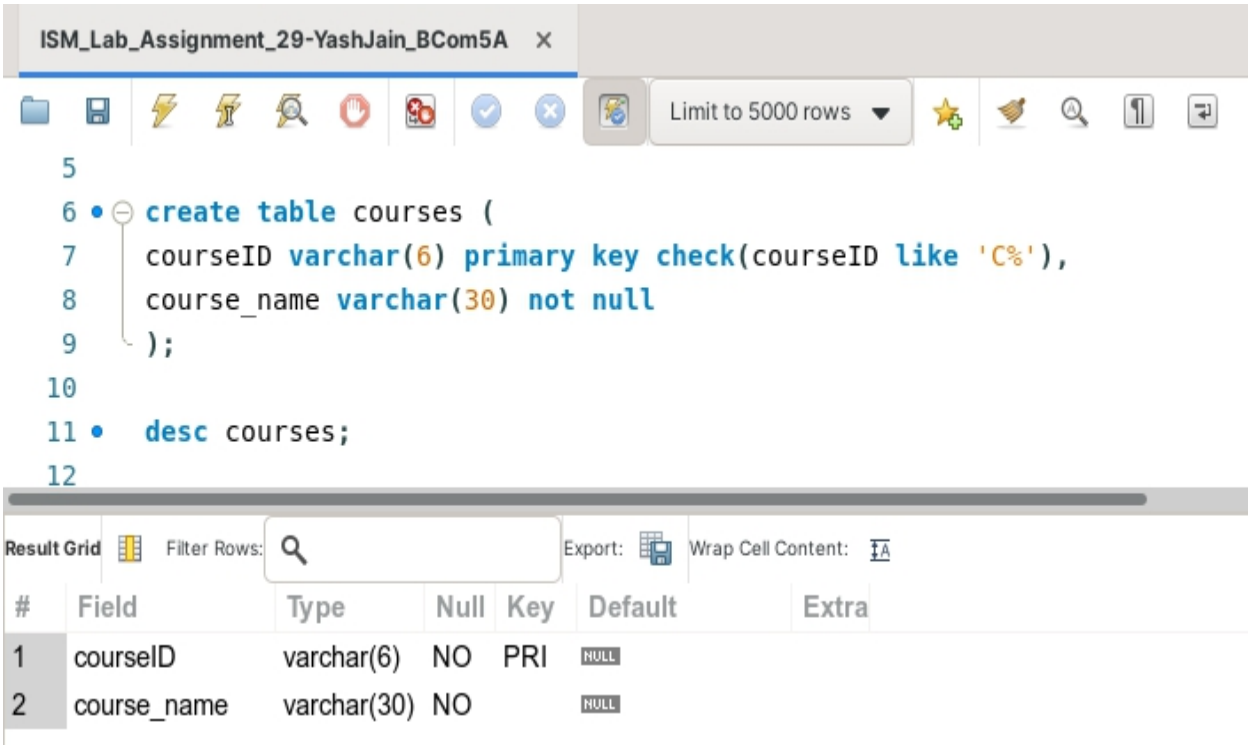


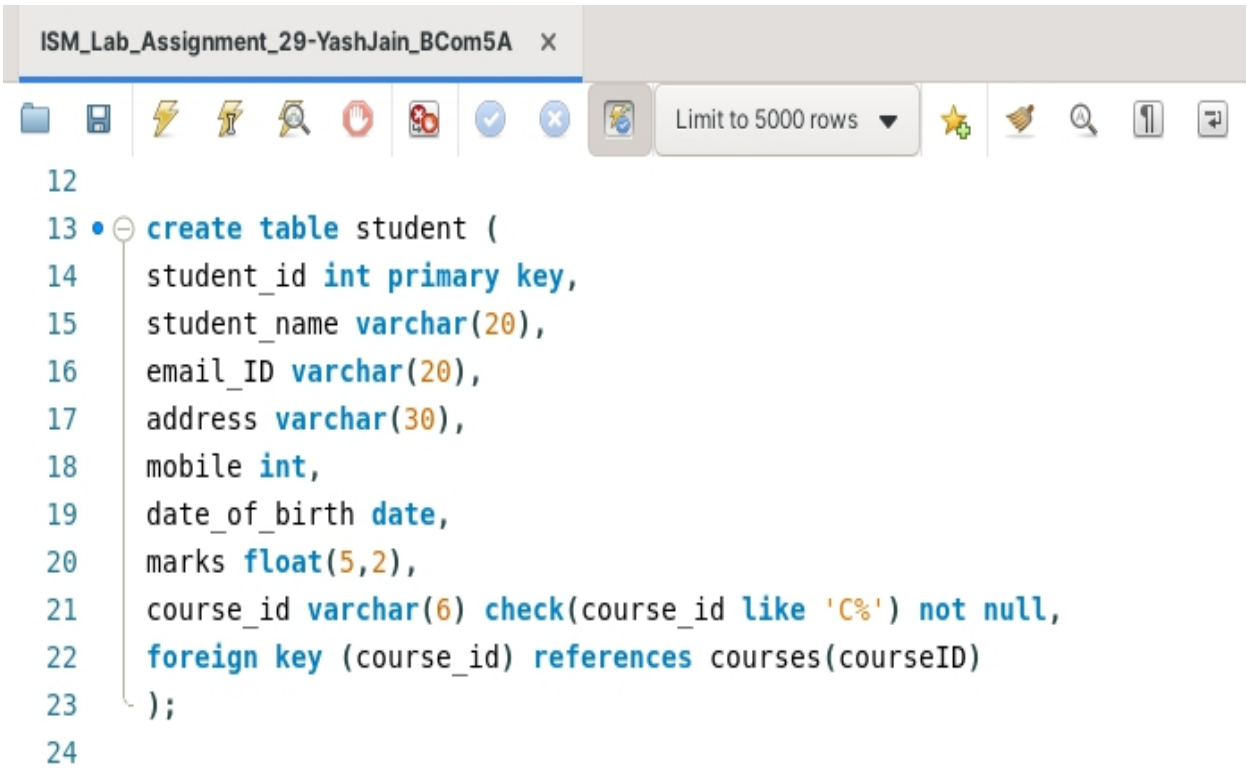
This diagram would enable us to make a relational model of the database, which looks like the one below :



Now, the final step is to create the tables in MySQL as per the given relational model. This is where the **CREATE TABLE** Command is used.

Since there are multiple foreign key constraints to be applied to multiple tables, we first create all the foreign tables, and then the primary tables.





```
25 •  desc student;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	student_id	int	NO	PRI	NULL	
2	student_name	varchar(20)	YES		NULL	
3	email_ID	varchar(20)	YES		NULL	
4	address	varchar(30)	YES		NULL	
5	mobile	int	YES		NULL	
6	date_of_birth	date	YES		NULL	
7	marks	float(5,2)	YES		NULL	
8	course_id	varchar(6)	NO	MUL	NULL	

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Limit to 5000 rows

```
26
27 • create table lecturers (
28   lecturer_id varchar(6) primary key check( lecturer_id like 'L%'),
29   lecturer_name varchar(20),
30   course_id varchar(6) check(course_id like 'C%') not null,
31   foreign key (course_id) references courses(courseID)
32   );
33
34 •  desc lecturers;
35
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	lecturer_id	varchar(6)	NO	PRI	NULL	
2	lecturer_name	varchar(20)	YES		NULL	
3	course_id	varchar(6)	NO	MUL	NULL	

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Limit to 5000 rows

```
35
36 • create table student_hobby (
37   student_id int not null, foreign key (student_id) references student(student_id),
38   hobby varchar(40)
39   );
40
41 •  desc student_hobby;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	student_id	int	NO	MUL	NULL	
2	hobby	varchar(40)	YES		NULL	