Name: Debashmita Saha, Enrollment Number: EBEON0524136576 Batch: 2024-RDMS

```
Project 02
create database Project02;
use Project02;
create table students
(
 students_id varchar(20) primary key,
 stu_name varchar(50) not null,
 department varchar(50) not null,
 Phone varchar(20),
grade decimal(6,2) check(grade> 0)
);
INSERT INTO students (students_id, stu_name, department, Phone, grade)
VALUES ('S12345', 'John Doe', 'Computer Science', '123-456-7890', 85.50);
INSERT INTO students (students_id, stu_name, department, grade)
VALUES ('S34567', 'Alex Johnson', 'Physics', 78.50);
INSERT INTO students (students id, stu name, department, Phone, grade)
VALUES ('S45678', 'Emily Lee', 'Chemistry', '555-123-4567', 88.00);
select * from students;
Output:
 students_id
                                department
                                                     Phone
                                                                      grade
               stu_name
S12345
                                                                     85.50
               John Doe
                               Computer Science
                                                    123-456-7890
                                                    NULL
                               Physics
S34567
               Alex Johnson
                                                                     78.50
S45678
               Emily Lee
                               Chemistry
                                                    555-123-4567
                                                                     88.00
              NULL
                               NULL
                                                    NULL
                                                                     NULL
create table course
```

course_id int primary key,

```
course_name varchar(20) not null,
 dpt varchar(20) not null,
 prof varchar(50) not null,
 credit int check(credit between 0 and 100)
);
INSERT INTO course (course id, course name, dpt, prof, credit)
VALUES (101, 'Database Management', 'Computer Science', 'Dr. Smith', 3);
INSERT INTO course (course_id, course_name, dpt, prof, credit)
VALUES (102, 'AI', 'Computer Science', 'Dr. Johnson', 4);
INSERT INTO course (course_id, course_name, dpt, prof, credit)
VALUES (103, 'Data Analysis', 'Computer Science', 'Prof. Lee', 3);
select * from course;
Output:
                                                           Edit: 6 Export/1
  Result Grid
                          Filter Rows:
                                             dpt
      course_id
                   course_name
                                                                  prof
                                                                                  credit
                                                                 Dr. Smith
      101
                  Database Management
                                             Computer Science
                                                                                 3
      102
                                             Computer Science
                                                                 Dr. Johnson
                                                                                 4
      103
                  Data Analysis
                                             Computer Science
                                                                 Prof. Lee
                  NULL
                                            NULL
                                                                 NULL
                                                                                NULL
     NULL
create table Professor
(
 Prof_id varchar(10) Primary key,
 Prof_name varchar(50) not null,
 dpt varchar(20) not null,
 course_id int not null unique,
 foreign key(course_id) references course(course_id)
);
```

INSERT INTO Professor (Prof_id, Prof_name, dpt, course_id)

VALUES ('P101', 'Dr. Smith', 'Computer Science', 101);

```
INSERT INTO Professor (Prof_id, Prof_name, dpt, course_id)

VALUES ('P102', 'Prof. Johnson', 'Mathematics', 102);

INSERT INTO Professor (Prof_id, Prof_name, dpt, course_id)

VALUES ('P103', 'Dr. Lee', 'Physics', 103);

select * from Professor;
```

Output:

(e	Cesuit Grid HE TO Filter KOWS: Edit:					
	Prof_id	Prof_name	dpt	course_id		
	P101	Dr. Smith	Computer Science	101		
	P102	Prof. Johnson	Mathematics	102		
	P103	Dr. Lee	Physics	103		
1	HOLL	HOLE	HOLE	HOLL		

```
create table dept
(

dep_id varchar(10),

dep_name varchar(50),

location varchar(50)
);

INSERT INTO dept (dep_id, dep_name, location)

VALUES ('D101', 'Computer Science', 'Building A, 3rd Floor');

INSERT INTO dept (dep_id, dep_name, location)

VALUES ('D102', 'Mathematics', 'Building B, 2nd Floor');

INSERT INTO dept (dep_id, dep_name, location)

VALUES ('D103', 'Physics', 'Building C, 1st Floor');
```

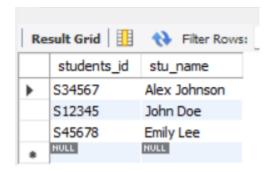
select * from course;

Output:

	Prof_id	Prof_name	dpt	course_id	
•	P101	Dr. Smith	Computer Science	101	
	P102	Prof. Johnson	Mathematics	102	
	P103	Dr. Lee	Physics	103	
	NULL	NULL	NULL	NULL	

select students_id, stu_name from students group by students_id order by grade;

Output:



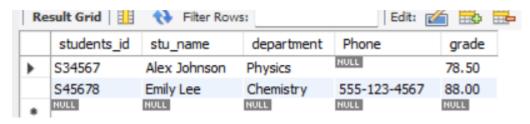
update course set credit = 5 where course_id = 101;

select * from course;

esult Grid	Filter Rows:	Edit	: 🚣 🖶 🗒	Export/I
course_id	course_name	dpt	prof	credit
101	Database Management	Computer Science	Dr. Smith	5
102	AI	Computer Science	Dr. Johnson	4
103	Data Analysis	Computer Science	Prof. Lee	3
NULL	NULL	NULL	NULL	NULL

delete from students where students_id = 'S12345';

select * from students;



grant select, insert, delete, update on students to 'John'@'Localhost';

Revoke delete, update on students from 'John'@'Localhost';