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1)Q

Perform and demonstrate the cross-join between the student and course table.

Ans:

// Student Table

```
mysql> select * from student;
```

studentid	firstname	lastname	dateofbirth	gender	email	phone
1	don	seenu	2001-08-07	m	seenu156@gmail.com	8087655321
2	shiva	smith	2002-08-09	m	jane_smith@example.com	1235698765
3	ramesh	danny	2001-07-08	m	danny124@gmail.com	2345678901
4	laddu	mahi	2003-07-09	m	mahi456@gmail.com	3456789012
5	shiva	swaraj	2002-08-08	m	swaraj456@gmail.com	9087654321

```
5 rows in set (0.00 sec)
```

// Course Table

```
mysql> select * from Course;
```

CourseID	CourseTitle	Credits
1200	MCA	A
1240	MBA	A
1360	MSC	B
1460	BSC	0
1520	BA	0

```
5 rows in set (0.00 sec)
```

// The table looks like below

// After Performing Cross-Join

```
mysql> select student.studentID,student.FirstName,student.LastName,Course.CourseID,Course.CourseTitle
-> FROM student
-> cross join Course;
```

studentID	FirstName	LastName	CourseID	CourseTitle
1	don	seenu	1200	MCA
2	shiva	smith	1200	MCA
3	ramesh	danny	1200	MCA
4	laddu	mahi	1200	MCA
5	shiva	swaraj	1200	MCA
1	don	seenu	1240	MBA
2	shiva	smith	1240	MBA
3	ramesh	danny	1240	MBA
4	laddu	mahi	1240	MBA
5	shiva	swaraj	1240	MBA
1	don	seenu	1360	MSC
2	shiva	smith	1360	MSC
3	ramesh	danny	1360	MSC
4	laddu	mahi	1360	MSC
5	shiva	swaraj	1360	MSC
1	don	seenu	1460	BSC
2	shiva	smith	1460	BSC
3	ramesh	danny	1460	BSC
4	laddu	mahi	1460	BSC
5	shiva	swaraj	1460	BSC
1	don	seenu	1520	BA
2	shiva	smith	1520	BA
3	ramesh	danny	1520	BA
4	laddu	mahi	1520	BA
5	shiva	swaraj	1520	BA

```
25 rows in set (0.00 sec)
```

2Q:

perform and demonstrate the inner join on student and score table based on common id.

Ans:

// Student Table

```
mysql> select * from student;
```

studentid	firstname	lastname	dateofbirth	gender	email	phone
1	don	seenu	2001-08-07	m	seenu156@gmail.com	8087655321
2	shiva	smith	2002-08-09	m	jane_smith@example.com	1235698765
3	ramesh	danny	2001-07-08	m	danny124@gmail.com	2345678901
4	laddu	mahi	2003-07-09	m	mahi456@gmail.com	3456789012
5	shiva	swaraj	2002-08-08	m	swaraj456@gmail.com	9087654321

```
5 rows in set (0.00 sec)
```

// Score Table

```
mysql> select * from Score;
```

ScoreID	CourseID	StudentID	DateofExam	CreditObtained
10	1220	1	1999-12-22	3.00
20	1240	2	2001-05-13	4.00
30	1360	3	2001-04-01	5.00

```
3 rows in set (0.00 sec)
```

// After Applying Inner Join for above two tables

```
mysql> select student.studentID,student.FirstName,student.LastName,Score.CourseID,Score.CreditObtained
-> FROM student
-> inner join Score on student.studentID = Score.studentID;
```

studentID	FirstName	LastName	CourseID	CreditObtained
1	don	seenu	1220	3.00
2	shiva	smith	1240	4.00
3	ramesh	danny	1360	5.00

```
3 rows in set (0.00 sec)
```

3Q:

Perform and demonstrate the left join instructor and student based on common id

Ans:

// Instructor Table

```
mysql> select * from Instructor;
```

InstructorID	FirstName	LastName	Email	StudentID
123	NULL	NULL	NULL	NULL
124	shiva	swaraj	swaraj456@gmail.com	91
230	shiva	raj	raj23@gmail.com	3
330	veeresh	krishna	krishna@gmail.com	5

```
4 rows in set (0.00 sec)
```

//Student Table

```
mysql> select * from student;
```

studentid	firstname	lastname	dateofbirth	gender	email	phone
1	don	seenu	2001-08-07	m	seenu156@gmail.com	8087655321
2	shiva	smith	2002-08-09	m	jane_smith@example.com	1235698765
3	ramesh	danny	2001-07-08	m	danny124@gmail.com	2345678901
4	laddu	mahi	2003-07-09	m	mahi456@gmail.com	3456789012
5	shiva	swaraj	2002-08-08	m	swaraj456@gmail.com	9087654321

```
5 rows in set (0.00 sec)
```

/

// After performing Left Join on above two Tables

// the Table will be look like below

```
mysql> Select Instructor.StudentID,Instructor.InstructorID,Student.FirstName,Student.StudentID
-> From Student
-> Left Join Instructor on
-> Student.StudentID = Instructor.StudentID;
```

StudentID	InstructorID	FirstName	StudentID
NULL	NULL	don	1
NULL	NULL	shiva	2
3	230	ramesh	3
NULL	NULL	laddu	4
5	330	shiva	5

```
5 rows in set (0.00 sec)
```