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Lab 3

1. perform and demonstrate the cross-join between the student and course table.

```
mysql> select * from student;
+-----+-----+
| StudentID | StudentName |
+-----+-----+
|          10 | pavan       |
|          11 | shruthi     |
|          12 | ganesh      |
|         136 | sainavitha  |
|         145 | srujana     |
+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from course;
+-----+-----+
| CourseID | CourseName |
+-----+-----+
|         11 | designing  |
|         14 | javafullstack |
|         15 | python     |
|         16 | SQL        |
|         17 | testing    |
+-----+-----+
5 rows in set (0.00 sec)
```

select * from student cross join course;

```
mysql> select * from student cross join course;
```

StudentID	StudentName	CourseID	CourseName
10	pavan	11	designing
11	shruthi	11	designing
12	ganesh	11	designing
136	sainavitha	11	designing
145	srujana	11	designing
10	pavan	14	javafullstack
11	shruthi	14	javafullstack
12	ganesh	14	javafullstack
136	sainavitha	14	javafullstack
145	srujana	14	javafullstack
10	pavan	15	python
11	shruthi	15	python
12	ganesh	15	python
136	sainavitha	15	python
145	srujana	15	python
10	pavan	16	SQL
11	shruthi	16	SQL
12	ganesh	16	SQL
136	sainavitha	16	SQL
145	srujana	16	SQL
10	pavan	17	testing
11	shruthi	17	testing
12	ganesh	17	testing
136	sainavitha	17	testing
145	srujana	17	testing

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

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

```
mysql> select * from score;
```

ScoreID	CourseID	StudentID	DateOfExam	CreditObtained
1	16	136	2024-03-21	85.50
2	14	145	2024-05-14	78.00
3	11	10	2023-09-25	90.00
4	15	12	2023-07-20	82.00

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

```
mysql> select s.studentId,c.studentId
```

```
-> from student s inner join score c
```

-> where s.studentId=c.studentId;

studentId	studentId
10	10
12	12
136	136
145	145

4 rows in set (0.02 sec)

3. perform and demonstrate the left join
instructor and student based on common id

```
mysql> select * from instructor;
```

instructor_id	instructor_name	StudentID
1	John Doe	10
2	Jane Smith	11
3	varalu	12
4	bhagi	136
5	sai	145

5 rows in set (0.00 sec)

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

StudentID	StudentName
10	pavan
11	shruthi
12	ganesh
136	sainavitha
145	srujana

5 rows in set (0.00 sec)

mysql> select *

-> from instructor i left join student s

-> on i.instructor_id=s.studentID;

```
+-----+-----+-----+-----+-----+
| instructor_id | instructor_name | StudentID | StudentID | StudentName |
+-----+-----+-----+-----+-----+
|          1 | John Doe       |          10 |          NULL |          NULL |
|          2 | Jane Smith     |          11 |          NULL |          NULL |
|          3 | varalu         |          12 |          NULL |          NULL |
|          4 | bhagi          |         136 |          NULL |          NULL |
|          5 | sai            |         145 |          NULL |          NULL |
+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```