

Name: Sanghavi Dommata

Id: AF0400654

Lab 3

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

Students

```
mysql> select * from Student;
```

StudentID	FirstName	LastName	Gender	Email
1	Teja	kiran	M	tej@gmail.com
2	raj	kumar	M	raj@gmail.com
3	sai	kumar	M	sai@gmail.com

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

Course

```
mysql> select * from course;
```

CourseID	CourseTitle	Credits
1	Introduction of computer	4
2	Science	5
3	Telugu	3
4	Maths	5
5	English	4

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

Select * from Student cross Join Course;

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

StudentID	FirstName	LastName	Gender	Email	CourseID	CourseTitle	Credits
1	Teja	kiran	M	tej@gmail.com	1	Introduction of computer	4
2	raj	kumar	M	raj@gmail.com	1	Introduction of computer	4
3	sai	kumar	M	sai@gmail.com	1	Introduction of computer	4
1	Teja	kiran	M	tej@gmail.com	2	Science	5
2	raj	kumar	M	raj@gmail.com	2	Science	5
3	sai	kumar	M	sai@gmail.com	2	Science	5
1	Teja	kiran	M	tej@gmail.com	3	Telugu	3
2	raj	kumar	M	raj@gmail.com	3	Telugu	3
3	sai	kumar	M	sai@gmail.com	3	Telugu	3
1	Teja	kiran	M	tej@gmail.com	4	Maths	5
2	raj	kumar	M	raj@gmail.com	4	Maths	5
3	sai	kumar	M	sai@gmail.com	4	Maths	5
1	Teja	kiran	M	tej@gmail.com	5	English	4
2	raj	kumar	M	raj@gmail.com	5	English	4
3	sai	kumar	M	sai@gmail.com	5	English	4

15 rows in set (0.01 sec)

2.Perform and demonstrate the inner join on Student and instructor table based on common FirstName

```
mysql> select * from Student;
```

StudentID	FirstName	LastName	Gender	Email
1	Teja	kiran	M	tej@gmail.com
2	raj	kumar	M	rajj@gmail.com
3	sai	kumar	M	sai@gmail.com
4	ankit	raj	NULL	NULL

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

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

InstructorID	FirstName	LastName	Email
1	Teja	Kiran	tejakiran456@gmail.com
2	Kiran	Teja	teja123@gmail.com
3	raj	Kumar	raju@gmail.com
4	shiv	Kumar	shiva@gmail.com
5	sai	Tej	sai@gmail.com

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

```
Mysql>selects s.firstname,c.firstname
```

```
→from Student s inner join instructor c
```

```
→where s.FirstName =c.FirstName;
```

```
mysql> select s.FirstName,c.FirstName  
        -> from student s inner join instructor c  
        -> where s.FirstName=c.Firstname;
```

FirstName	FirstName
Teja	Teja
raj	raj
sai	sai

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

```
mysql> select * from instructor;
+-----+-----+-----+-----+
| InstructorID | FirstName | LastName | Email |
+-----+-----+-----+-----+
| 1 | Teja | Kiran | tejakiran456@gmail.com |
| 2 | Kiran | Teja | teja123@gmail.com |
| 3 | raj | Kumar | raju@gmail.com |
| 4 | shiv | Kumar | shiva@gmail.com |
| 5 | sai | Tej | sai@gmail.com |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from student;
+-----+-----+-----+-----+-----+
| StudentID | FirstName | LastName | Gender | Email |
+-----+-----+-----+-----+-----+
| 1 | Teja | kiran | M | tej@gmail.com |
| 2 | raj | kumar | M | rajj@gmail.com |
| 3 | sai | kumar | M | sai@gmail.com |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Mysql> select*

→from instructor I left join student s

→on I.instructorId = s.studentId;

```
mysql> select *
-> from instructor i left join student s
-> on i.InstructorId=s.studentId;
+-----+-----+-----+-----+-----+-----+-----+-----+
| InstructorID | FirstName | LastName | Email | StudentID | FirstName | LastName | Gender | Email |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Teja | Kiran | tejakiran456@gmail.com | 1 | Teja | kiran | M | tej@gmail.com |
| 2 | Kiran | Teja | teja123@gmail.com | 2 | raj | kumar | M | rajj@gmail.com |
| 3 | raj | Kumar | raju@gmail.com | 3 | sai | kumar | M | sai@gmail.com |
| 4 | shiv | Kumar | shiva@gmail.com | NULL | NULL | NULL | NULL | NULL |
| 5 | sai | Tej | sai@gmail.com | NULL | NULL | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```