## JOINS-CROSS JOIN ,INNER JOIN AND LEFT JOIN

LAB:DBMS 3<sup>RD</sup> LAB

BATCH:ANP-C 7970

NAME:M.PRASANNA REDDY

**STUDENT ID: AF0400804** 

- 1. Perform and demonstrate the cross-join between the student and course table.
- SELECT STUDENTID, FIRSTNAME, COURSEID, COURSETITLE

FROM STUDENT CROSS JOIN

COURSE;

mysql> SELECT studentID, FirstName, courseID, CourseTitle -> FROM Student -> CROSS JOIN Course; studentID | FirstName | courseID | CourseTitle | 1 | PHP 5 Satya 4 1 jhansi 1 | PHP 2 | satya 1 | jagadeesh | 1 | PHP 1 | PHP 5 | Satya 2 | REACT 4 | jhansi | 2 | satya 1 | jagadeesh | 2 | REACT 2 | REACT 2 | REACT 3 | JAVASCRIPT 5 | Satya 4 | jhansi | 2 | satya | 1 | jagadeesh | 3 JAVASCRIPT 3 | JAVASCRIPT 3 | JAVASCRIPT 4 CSS 5 Satya 4 | jhansi 2 | satya 4 CSS 4 | CSS 1 | jagadeesh | 4 CSS 5 HTML 5 | Satya 4 | jhansi 2 | satya 5 | HTML 5 | HTML 5 | HTML 1 | jagadeesh | 20 rows in set (0.00 sec)

2.Perform and demonstrate the inner join on student and score tablebased on common id.

SELECT STUDENT.STUDENTID,

STUDENT.FIRSTNAME, SCORE.CREDITOBTAINED FROM STUDENTINNER
JOIN SCORE ON STUDENT.STUDENTID=SCOREID;

```
mysql> select student.studentID, student.FirstName, score.CreditObtained
    -> FROM Student
    -> inner join score on student.studentID=score.scoreID;
+------+
| studentID | FirstName | CreditObtained |
+------+
| 1 | jagadeesh | 85.50 |
| 2 | satya | 90.00 |
| 5 | Satya | 79.50 |
+------+
3 rows in set (0.00 sec)
```

2. perform and demonstrate the left join instructor and student basedon common id.

INSERT INTO Instructor (FirstName, LastName, Email) VALUES('siri', 'rani', 'siri.doe@example.com'), ('dummy', 'Smith', 'jane.smith@example.com'), ('Alice', 'Johnson', 'alice.johnson@example.com'), ('Bob', 'Brown', 'bob.brown@example.com'), ('Carol', 'White', 'carol.white@example.com');

```
nysql> INSERT INTO Instructor (FirstName, LastName, Email)
    -> values
    -> ('siri', 'rani', 'siri.doe@example.com'),
    -> ('dummy', 'Smith', 'jane.smith@example.com'),
    -> ('Alice', 'Johnson', 'alice.johnson@example.com'),
    -> ('Bob', 'Brown', 'bob.brown@example.com'),
    -> ('Carol', 'White', 'carol.white@example.com');
Query OK, 5 rows affected (0.29 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

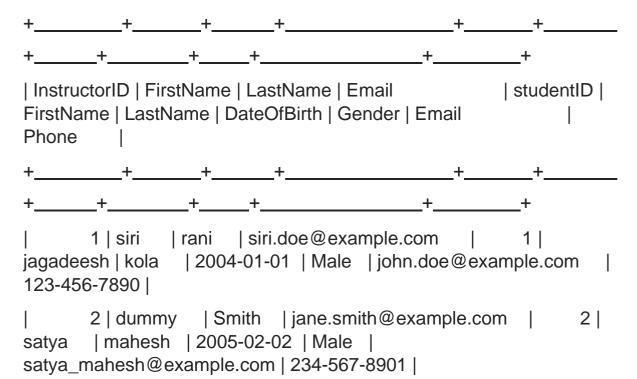
**SELECT**\*

FROM Instructor

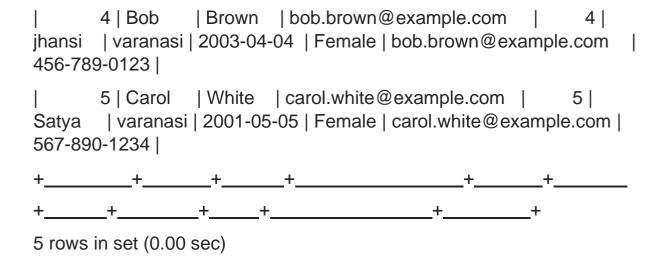
LEFT JOIN Student ON Instructor.InstructorID = Student.StudentID;

mysql> select \* from Instructor

-> left join student on Instructor.InstructorID= student.studentID;



| 3 | Alice | Johnson | alice.johnson@example.com | NULL | NULL | NULL | NULL | NULL | NULL |



ysql> select * from Instructor -> left join student on Instructor.InstructorID= student.studentID;										
nstructorID	FirstName	LastName	Email	studentID	FirstName   FirstName 	LastName				
1	siri	rani	siri.doe@example.com	1		   kola				
2	dummy	Smith	jane.smith@example.com	2	satya	mahesh				
3	Alice	Johnson	alice.johnson@example.com	NULL	NULL	NULL				
4	Bob	Brown	bob.brown@example.com	4	jhansi	varanasi				
5	Carol	White	carol.white@example.com	5	Satva	varanasi				

InstructorID	FirstName	LastName	Email	studentID	FirstName	LastName	DateOfBirth	Gender	Email	Phone
	+   siri	+   rani	+	   1	jagadeesh	+   kola	+   2004-01-01	+   Male	t   john.doe@example.com	   123-456-789
2	dummy	Smith	jane.smith@example.com	2	satva	mahesh		Male	satya_mahesh@example.com	
3	Alice	Johnson	alice.johnson@example.com		NULL	NULL	NULL	NULL	NULL	NULL
4	Bob	Brown	bob.brown@example.com	4	jhansi	varanasi	2003-04-04	Female	bob.brown@example.com	456-789-012
5	Carol	White	carol.white@example.com	5	Satva	varanasi			carol.white@example.com	567-890-123