

JOINS-CROSS JOIN ,INNER JOIN AND LEFT JOIN

LAB:DBMS 3RD 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 ,COURSE TITLE

FROM STUDENT CROSS JOIN

COURSE;

```
mysql> SELECT studentID, FirstName, courseID, CourseTitle
-> FROM Student
-> CROSS JOIN Course;
```

studentID	FirstName	courseID	CourseTitle
5	Satya	1	PHP
4	jhansi	1	PHP
2	satya	1	PHP
1	jagadeesh	1	PHP
5	Satya	2	REACT
4	jhansi	2	REACT
2	satya	2	REACT
1	jagadeesh	2	REACT
5	Satya	3	JAVASCRIPT
4	jhansi	3	JAVASCRIPT
2	satya	3	JAVASCRIPT
1	jagadeesh	3	JAVASCRIPT
5	Satya	4	CSS
4	jhansi	4	CSS
2	satya	4	CSS
1	jagadeesh	4	CSS
5	Satya	5	HTML
4	jhansi	5	HTML
2	satya	5	HTML
1	jagadeesh	5	HTML

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 STUDENT INNER
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');
```

```
mysql> 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;
```

InstructorID	FirstName	LastName	Email	studentID
1	siri	rani	siri.doe@example.com	1
	jagadeesh	kola	2004-01-01 Male john.doe@example.com 123-456-7890	
2	dummy	Smith	jane.smith@example.com	2
	satya	maresh	2005-02-02 Male satya_maresh@example.com 234-567-8901	

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

4	Bob	Brown	bob.brown@example.com	4
jhansi	varanasi	2003-04-04	Female	bob.brown@example.com 456-789-0123

5	Carol	White	carol.white@example.com	5
Satya	varanasi	2001-05-05	Female	carol.white@example.com 567-890-1234

```

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+-----+-----+-----+-----+-----+

```

5 rows in set (0.00 sec)

```
mysql> select * from Instructor
-> left join student on Instructor.InstructorID= student.studentID;
```

InstructorID	FirstName	LastName	Email	studentID	FirstName	LastName
1	siri	rani	siri.doe@example.com	1	jagadeesh	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	Satya	varanasi

5 rows in set (0.00 sec)

```
mysql> select * from Instructor
-> left join student on Instructor.InstructorID= student.studentID;
```

InstructorID	FirstName	LastName	Email	studentID	FirstName	LastName	DateOfBirth	Gender	Email	Phone
1	siri	rani	siri.doe@example.com	1	jagadeesh	kola	2004-01-01	Male	john.doe@example.com	123-456-7890
2	dummy	Smith	jane.smith@example.com	2	satya	mahesh	2005-02-02	Male	satya_mahesh@example.com	234-567-8901
3	Alice	Johnson	alice.johnson@example.com	NULL	NULL	NULL	NULL	NULL	NULL	NULL
4	Bob	Brown	bob.brown@example.com	4	jhansi	varanasi	2003-04-04	Female	bob.brown@example.com	456-789-0123
5	Carol	White	carol.white@example.com	5	Satya	varanasi	2001-05-05	Female	carol.white@example.com	567-890-1234

5 rows in set (0.00 sec)