

BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

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CLASS: F.Y. MCA SEM: I

COURSE CODE: MC504 SUBJECT NAME: DATABASE MANAGEMENT SYSTEM LAB

ROLL NO. : <u>2022510034</u> BATCH: <u>B</u>

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EXPERIMENT NO: 05

EXPERIMENT TITLE: To study SQL Joins

SQL Joins:

- Inner JOIN
- Full JOIN
- Outer JOIN
 - o Left Outer JOIN
 - o Right Outer JOIN
- Cross JOIN

Inner Join:

The MySQL INNER JOIN is used to return all rows from multiple tables where the join condition is satisfied. It is the most common type of join.

Syntax:

SELECT columns FROM table1 INNER JOIN table2 ON table1.column = table2.column;



Left Outer Join

The LEFT OUTER JOIN returns all rows from the left hand table specified in the ON condition and only those rows from the other table where the join condition is fulfilled.

Syntax:

SELECT columns
FROM table1
LEFT [OUTER] JOIN table2
ON table1.column = table2.column;



Right Outer Join

The MySQL Right Outer Join returns all rows from the RIGHT-hand table specified in the ON condition and only those rows from the other table where the join condition is fulfilled.

Syntax:

SELECT columns
FROM table1
RIGHT [OUTER] JOIN table2
ON table1.column = table2.column;



Full Join

- 1. The SQL full join is the result of combination of both left and right outer join and the join tables have all the records from both tables. It puts NULL on the place of matches not found.
- 2. Since MySQL doesn't have a **Full Join** command we will combine both **Left** and **Right** joins with the help of **Union** command to achieve **Full Join**.
- 3. **MySQL Union** clause allows us to combine two or more relations using multiple SELECT queries into a single result set.

Syntax:

SELECT col1,col2,... from table1 left join table2 on table1.column = table2.column UNION ALL

 $SELECT\ col1, col2, \dots\ from\ table1\ right\ join\ table2\ on\ table1.column = table2.column;$



Cross Join

MySQL CROSS JOIN is used to combine all possibilities of the two or more tables and returns the result that contains every row from all contributing tables. The CROSS JOIN is also known as CARTESIAN JOIN, which provides the Cartesian product of all associated tables.

Syntax:

SELECT column-lists FROM table1 CROSS JOIN table2;

