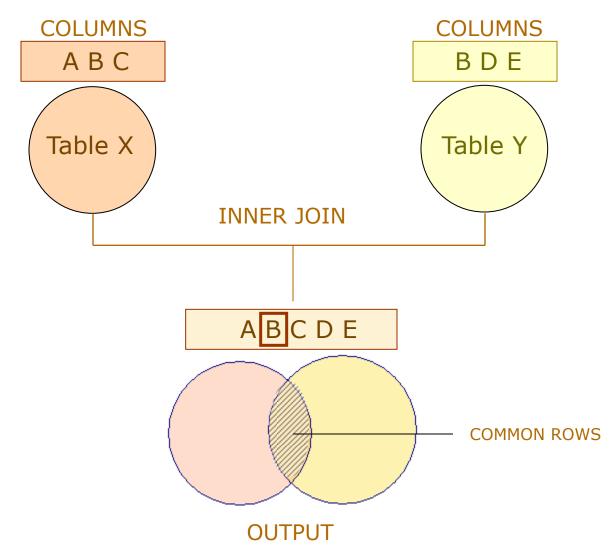
Joins

Joins

- Allow to retrieve data from multiple tables
- Can be of the following types:
 - Inner join
 - Outer join
 - Cross join
 - Equi join
 - Self join

Using an Inner Join

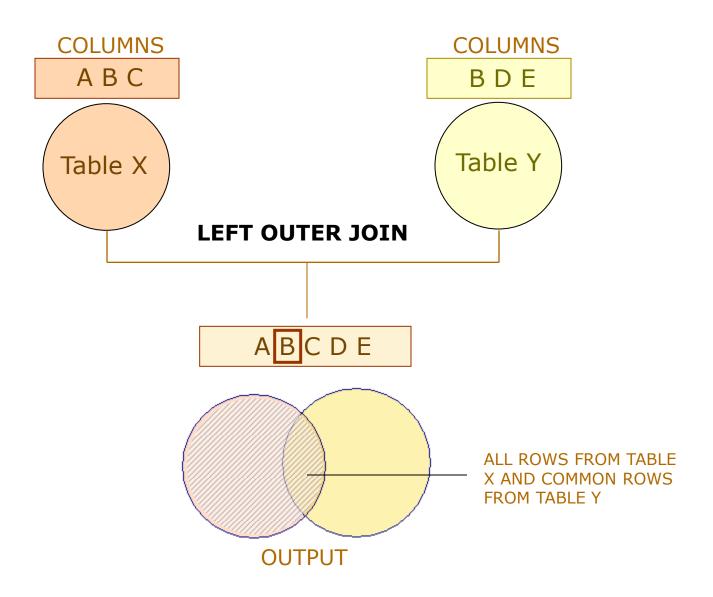


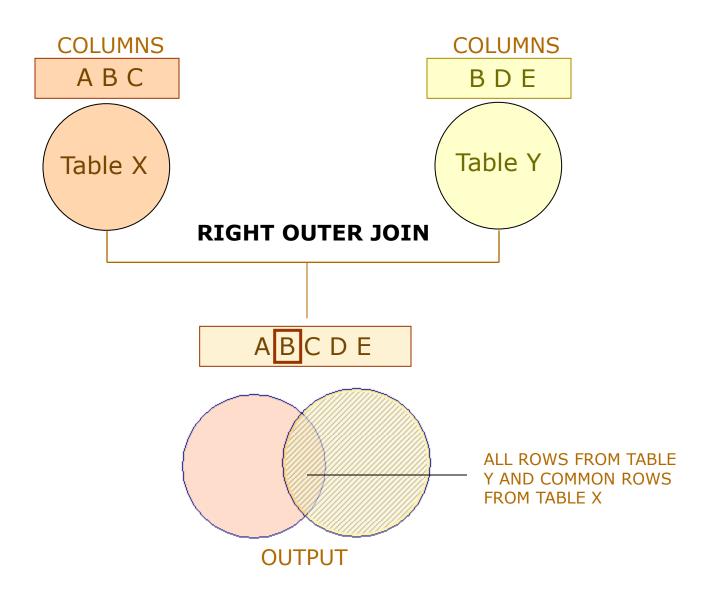
Inner Join:

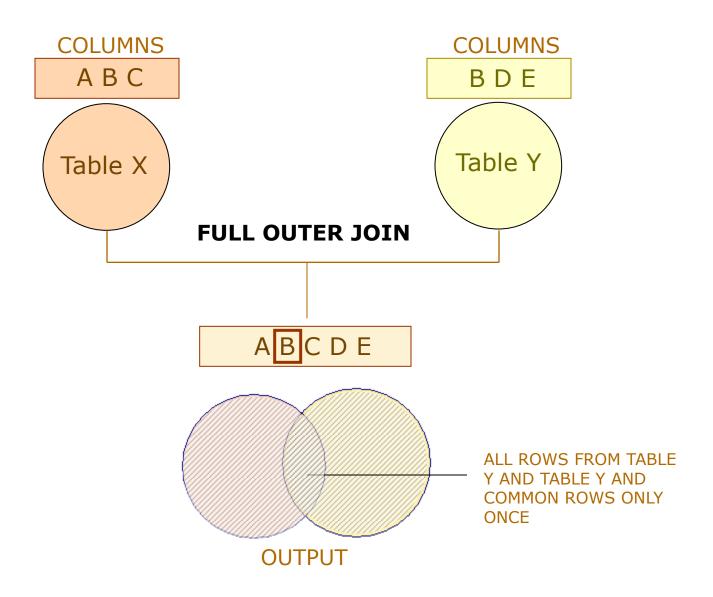
- Retrieves data from multiple tables by using a comparison operator on a common column
- Retrieves only those rows that satisfy the join condition

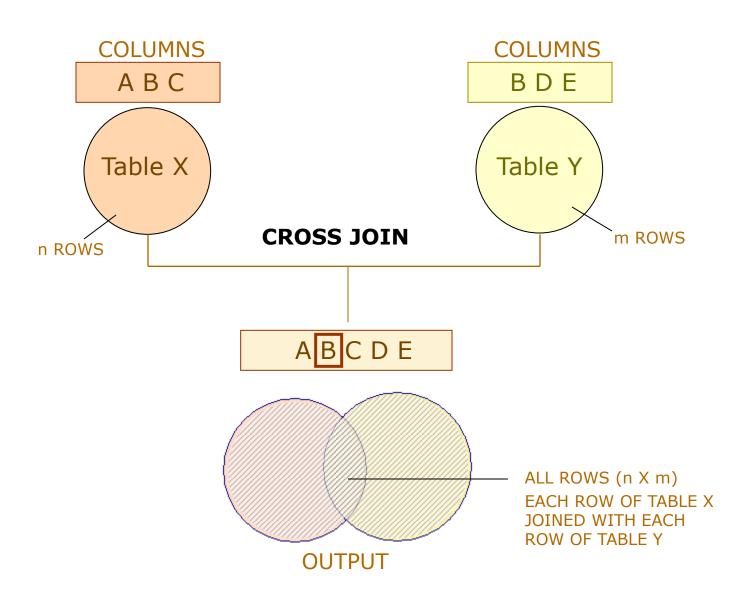
Using an Outer Join

- Outer Join:
 - Displays the result set containing all rows from one table and the matching rows from another table
 - Displays NULL for the columns of the related table where it does not find matching records
 - Is of three types:
 - Left outer join
 - Right outer join
 - Full outer join



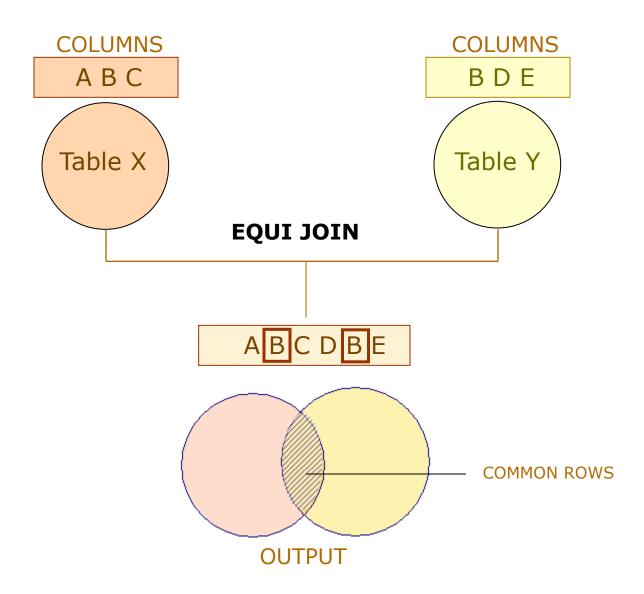






Cross Join:

- Displays each row from the first table joined with each row from the second table
- Produces the result set as the number of rows in the first table multiplied by the number of rows in the second table



- Equi Join:
 - Is same as an inner join
 - Displays all the columns from both the tables
 - Displays redundant column data in the result set

What is the difference between an equi and an inner join?

Answer:

An equi join is used to retrieve all the columns from both the tables. An inner join is used to retrieve selected columns from tables.

Using a Self Join

- Self Join:
 - Is used when one row in a table correlates with other rows in the same table
 - Uses alias name to differentiate the two copies of the same table

Summary

Therefore

- Joins are used to retrieve data from multiple tables.
- An inner join combines records from multiple tables by using a comparison operator on a common column.
- A left outer join returns all the rows from the left table and the matching rows from the right table.
- A right outer join returns all the rows from the right table and the matching rows from the left table.
- A full outer join returns all the matching and non-matching rows from both the tables on which join is applied.
- A cross join returns each row from the first table joined with each row from the second table.
- An equi join is used to list all the columns from the joining tables.
- A self join correlates one row in a table with other rows in the same table.

Thank You..