

DATABASE SYSTEM



JOINING TABLES



JOINS:

A JOIN clause is used to combine rows from two or more tables, based on a related column between them.

JOINING TABLES



Inner Join / Join / Inner Equi Join:

This type of join returns those records which have matching values in both tables.

Syntax:

```
SELECT Table1.Column1,Table1.Column2,Table2.Column1,....  
FROM Table1  
INNER JOIN Table2  
ON Table1.Matching Column = Table2.Matching Column;
```

JOINING TABLES



Outer Join

Full Outer Join / Full Join:

Full Join or the Full Outer Join returns all those records which either have a match in the `left(Table1)` or the `right(Table2)` table.

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Full Outer Join:

Syntax:

```
SELECT Table1.Column1,Table1.Column2,Table2.Column1,....  
FROM Table1  
FULL JOIN Table2  
ON Table1.Matching Column = Table2.Matching Column;
```

JOINING TABLES



Outer Join

Left Outer Join / Left Join:

The `LEFT JOIN` or the `LEFT OUTER JOIN` returns all the records from the left table and also those records which satisfy a condition from the right table.

The rows for which there is no matching row on right side, the result-set will contain *null*.

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Left Outer Join:

Syntax:

```
SELECT Table1.Column1,Table1.Column2,Table2.Column1,....  
FROM Table1  
LEFT JOIN Table2  
ON Table1.Matching Column = Table2.Matching Column;
```

JOINING TABLES



Outer Join

Right Outer Join / Right Join:

The `RIGHT JOIN` or the `RIGHT OUTER JOIN` returns all the records from the right table and also those records which satisfy a condition from the left table.

The rows for which there is no matching row on left side, the result-set will contain *null*.

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Right Outer Join:

Syntax:

```
SELECT Table1.Column1,Table1.Column2,Table2.Column1,....  
FROM Table1  
RIGHT JOIN Table2  
ON Table1.Matching Column = Table2.Matching Column;
```