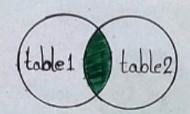
INNER JOIN

The INNER JOIN keyword selects records that have matching values in both tables.

INNER JOIN



Example:

SELECT column_name (s)

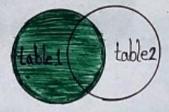
FROM table 1

INNER JOIN table 2

ON table 1. column_name = table 2. column_name;

The LEFT JOIN keyword returns all records from the left table (table 1), and the matching records (if any) from the right table (table 2).

LEFT JOIN



Example:SELECT column_name (s)

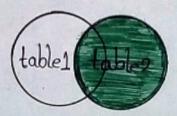
FROM table 1 LEFT JOIN table 2

ON table 1. column_name = table 2. column_name :

RIGHT JOIN

The RIGHT JOIN keyword returns all records from the right table (table 1), and the matching records (if any) from the left table (table 1).

RIGHT JOIN



Example:

SELECT Column_name (s)
FROM table 1

RIGHTJOIN table 2

ON table 1. column_name = table 2. column_name;

CROSS JOIN

The CROSS JOIN keyword returns all records from both tables (table 1 and table 2).

CROSS JOIN



Example:

SELECT column_name(s)
FROM table 1
CROSS JOIN table 2;

SELF JOIN

A self Join is a regular join, but the table is joined with itself.

Example:-

SELECT column_name (3)
FROM table 1.T1, table 1.T2
WHERE condition;

UNION Operator

SQL joins allow you to combine two datasets side-by-side, but UNION allows you to stack one dataset on top of the other. Put differently, UNION allows you to write two separate SELECT statements, and to have the results of one statement display in the same table as the results from the other statement.

Example:

- SELECT column-name (s) FROM table 1
 UNION
 SELECT column-name (s) FROM table 2;
- SELECT column_name (s) FROM table 1
 UNION ALL
 SELECT column_name (s) FROM table 2;

IN Operator
The IN operator allows you to specify multiple values in a WHERE clause.
The IN operator is a shorthand for multiple OR Conditions.

Example:

· SELECT* FROM sales
WHERE country IN ("India", "Nepal", "UK");

- · SELECT* FROM sales
 WHERE country NOT IN ("India", "Nepal", "UK");
- · SELECT * FROM sales
 WHERE country IN (SELECT country FROM suppliers);

EXISTS Operator

The EXISTS operator is used to test for the existence of any record in a subquery.

The EXISTS operator returns TRUE if the subquery returns one or more records.

Example:-

SELECT column_name (8)

FROM table-name

WHERE EXISTS

(SELECTeolumn_name FROMtable_name WHERE condition);

ANY and ALL Operator

The ANY and All operator allow you to perform a comparison between a single column value and a range of other values.

ANY Operator

· It returns a boolean value as a result.

· It returns TRUE if ANY of the subquery values meet the condition.

ANY means that the condition will be true if the operation is true for any of the values in the range.

Example:

SELECT Product Name FROM sales
WHERE Product ID = ANY
(SELECT Product ID FROM order Details
WHERE Quantity > 99);

ALL Operator

· It returns a boolean value as a result.

· It returns TRUE if ALL of the subquery values meet the condition.

• It is used with SELECT, WHERE and HAVING statements.

ALL means that the condition will be true only if the operation is true for all values in the range.

Example:

 SELECT ALL Product Name FROM Sales
 WHERE TRUE; • SELECT ProductName FROM sales

WHERE ProductID = ALL

(SELECT ProductID FROM order Details

WHERE Quantity = 10);

INSERT INTO SELECT

The INSERT INTO SELECT statement copies data from one table and inserts it into another table.

The INSERT INTO SELECT statement requires that the data types in source and target tables matches.

The existing records in the target table are unaffected.

- Example: INSERT INTO table 2

 SELECT * FROM table 1

 WHERE condition;
 - INSERTINTO table 2 (column 1, column 2, column 3, ...)

 SELECT column 1, column 2, column 3, ...

 FROM table 1

 WHERE condition;

INSERT INTO Statement

The INSERT INTO statement is used to insert new records in a table.

It is possible to write the INSERT INTO statement in two ways.

· Specify both the column names and the values to be inserted.

INSERT INTO table_name (column1, column2, column3,...)
VALUES (value1, value2, value3,...);

If you are adding values for all the columns of the table, you do not need to specify the column names in the SAL query. However, make sure the order of the values is in the Same order as the columns in the table. Here, the INSERT INTO Syntax would be as follows.

INSERT INTO table_name VALUES (value 1, value 2, value 3,...);

IFNULL() Function

IFNULL(). Function Lets you return an alternative value if an expression is NULL.

The example below returns 0 if the value is NULL.

- SFLECT contactname, IFNULL (bizphone, homephone) As phone FROM contacts;
- SELECT name, IFNULL (officephone, mobile phone) As contact FROM employee;