

# **CLAUSES**



## SQL CLAUSES

#### **SQL BETWEEN Clause**

SELECT column1, column2....columnN FROM table\_EID WHERE column\_EID BETWEEN val-1 AND val-2;

#### **SQL IN Clause**

SELECT column1, column2....columnN
FROM table\_EID
WHERE column EID IN (Val1, Val2... Valn);

#### **SQL Like Clause**

SELECT column1, column2....columnN FROM table\_EID WHERE column\_EID LIKE {
 PATTERN}

#### **SQL COUNT Clause**

SELECT COUNT(column\_EID) FROM table\_EID WHERE CONDITION;

#### **SQL DISTINCT Clause**

SELECT DISTINCT (column) FROM table\_EID;



## SQL CLAUSES

#### **SQL ORDER BY Clause**

SELECT column1, column2....columnN

FROM table\_EID

WHERE CONDITION

ORDER BY column\_EID {ASC|DESC};

Is it mantatory to use order by with group by: NO
Can where and having use interchangeably: NO
is it mantatory to use groupby along with having: NO
is it mantatory to use group by if i am using having: yes

#### 14 - E

its for grouping data based on an aggrigation funciton

#### order of clauses:

- 1. where
- 2. group by
- 3. having
- 4. order by

#### **SQL GROUP BY Clause**

SELECT SUM(column EID)

FROM table EID

WHERE CONDITION

GROUP BY column\_EID;

#### **SQL HAVING Clause**

SELECT SUM(column\_EID)

FROM table\_EID

WHERE CONDITION GROUP BY column\_EID

HAVING (arithematic function condition);







#### **ASSIGNMENT – 4**

In the EMP table display:

CITY WISE COUNT OF EMPLOYEES ARRANGED IN DESCENDING ORDFER

DETAILS OF THE EMPLOYEES WHO DOES NOT HAVE AN ACCOUNT ON YAHOO DOMAIN

From the Emp\_Sal table display:

DESIGNATION WISE TOTAL COST AND NUMBER OF MEMBERS ARRANGED IN DESCENDING ORDER OF THE TOTAL COST



# JOINS



joins are required when we need to retrive or display data from more than 1 table

The SQL Joins clause is used to combine records from two or more tables in a database. A JOIN is a means for combining fields from two tables by using values common to each.

### **SQL Join Types:**

- •INNER JOIN: returns rows when there is a match in both tables.
- •LEFT JOIN: returns all rows from the left table, even if there are no matches in the right table.
- •RIGHT JOIN: returns all rows from the right table, even if there are no matches in the left table.
- •FULL JOIN: returns rows when there is a match in one of the tables.
- •CARTESIAN JOIN: returns the cartesian product of the sets of records from the two or more joined tables.
- •SELF JOIN: is used to join a table to itself, as if the table were two tables, temporarily renaming at least one table in the SQL statement.



The most frequently used and important of the joins is the INNER JOIN. They are also referred to as an EQUIJOIN..

SELECT table1.column1, table2.column2...

FROM table1

**INNER JOIN table 2** 



The SQL Left Join returns all the values from the left table, plus matched values from the right table or NULL in case of no matching.

SELECT table1.column1, table2.column2...

FROM table1

LEFT JOIN table 2



The SQL Right Join returns all the values from the right table, plus matched values from the left table or NULL in case of no matching.

SELECT table1.column1, table2.column2...

FROM table1

RIGHT JOIN table 2



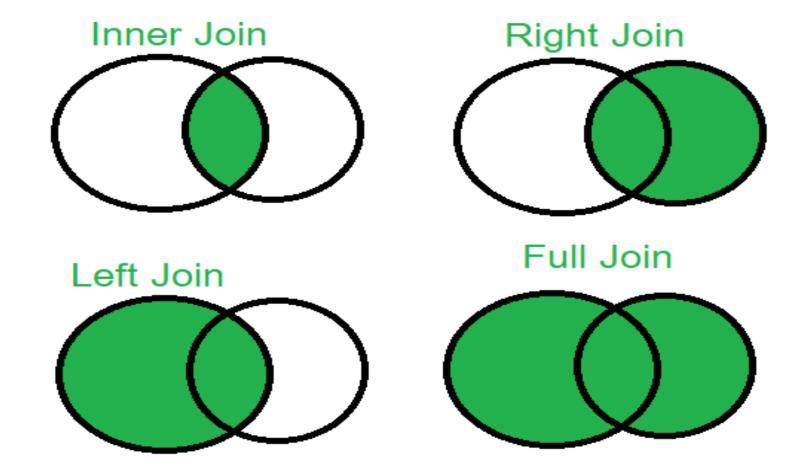
The SQL FULL JOIN combines the results of both left and right outer joins.

SELECT table1.column1, table2.column2...

FROM table1

FULL JOIN table 2







## CARTESIAN JOIN

- The CARTESIAN JOIN or CROSS JOIN returns the cartesian product of the sets of records from the two or more joined tables.
- It produces a result set which is the number of rows in the first table multiplied by the number of rows in the second table if no WHERE clause is used along with CROSS JOIN.
- If WHERE clause is used with CROSS JOIN, it functions like an INNER JOIN.

SELECT table1.column1, table2.column2...

FROM table1

**CROSS JOIN table2** 



SELECT table1.column1, table2.column2...

FROM table1

**CROSS JOIN table2** 

Cross join with where condition of common elements gives inner join

### UPDF WWW.UPDF.COM SELF JOIN

The SQL SELF JOIN is used to join a table to itself, as if the table were two tables, temporarily renaming at least one table in the SQL statement.

SELECT a.column\_EID, b.column\_EID...

FROM table1 a, table1 b

WHERE a.common\_filed = b.common\_field;

