MSD Sanjeevani Public School, Mohan Garden Subject- Computer Science (with Python) Class-12th (Non-Med)

Assignment-7 (from ch-13 More on MYSQL...)

Searching for Null values or not null values in tables:

- Null is used to process the blank entries or no values e.g.
- Select * from emp where name = null; #wrong
- Select * from emp where name is null; #right
- Select * from emp where name!=null; #wrong
- Select * from emp where name is not null;

SQL Joins means accessing data from more than one table.

There are 3 types of joins:

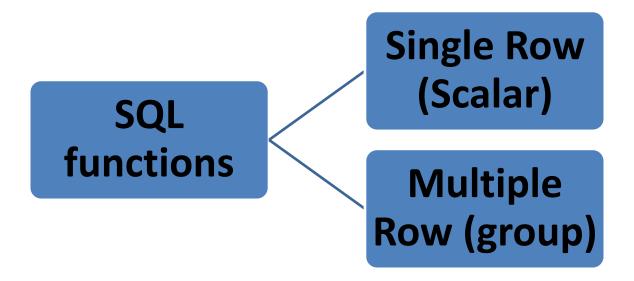
- Cross join or Cartesian join
- Equi join
- Natural join
- 1. <u>Cross join or Cartesian</u> –when An SQL query applied without any join condition, returns all records from both table after joining records.
- 2. <u>Equi-join-</u> This is SQL query with that join or combines 2 or more tables baseed on condition with equality operator (=) and returns only those records present in both tables as per the given equality test e.g. Select * from emp,dep where emp.depcode=dep.depcode;
- 3. Natural Join is a type of equi join where the join condition compares all the same columns in both tables (shows all columns after join and records present in both table.

Order by clause in SELECT statement
By default using select records are not displayed in any order [ascending/descending].

 Order by along with select helps to order record according to specified column as shown below.

MVSQL 5.5 Command	II Laui	C.				
mysql> select * from stu order by name ;						
rollno	name	gender	dob	marks	stream	city
5 2 1 3	Manju Raazi Raj Raju	m f m m	2000-01-09 2002-01-09 2000-11-09 2000-01-09	88 NULL 98 88	nonmed commerce nonmed nonmed	NULL NULL NULL NULL
4 rows in set (0.00 sec) mysql> select * from stu order by gender desc;						
rollno	name	gender	dob	marks	stream	city
1 3 5 2	Raj Raju Manju Raazi	m m m f	2000-11-09 2000-01-09 2000-01-09 2002-01-09	98 88 88 NULL	nonmed nonmed nonmed commerce	NULL NULL NULL NULL
# rows in set (0.00 sec) mysql> select * from stu order by gender desc,name asc;						
rollno	name	gender	dob	marks	stream	city
5 1 3 2	Manju Raj Raju Raazi	m m m f	2000-01-09 2000-11-09 2000-01-09 2002-01-09	88 98 88 NULL	nonmed nonmed nonmed commerce	NULL NULL NULL NULL
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Types of SQL functions



SQL funtions

<u>Scalar or single row functions</u> works with data of single row at a time and return result for every row in relation e.g. left(), round(), year(), month() etc.

<u>Group or aggregate functions</u> works with data of multiple rows at a time and return aggregated result e.g. min(), max(), avg(), sum(), count().

Grouping result- using group by

<u>Group by</u> - clause is used to <u>combine</u> all identical/ same values in a specific field/column. Grouping returns result into one summary per group. And may return multiple single value according to number of groups in the column e.g in gender column it will return 2 group result.