

28-11-2022
Monday

* Function :-

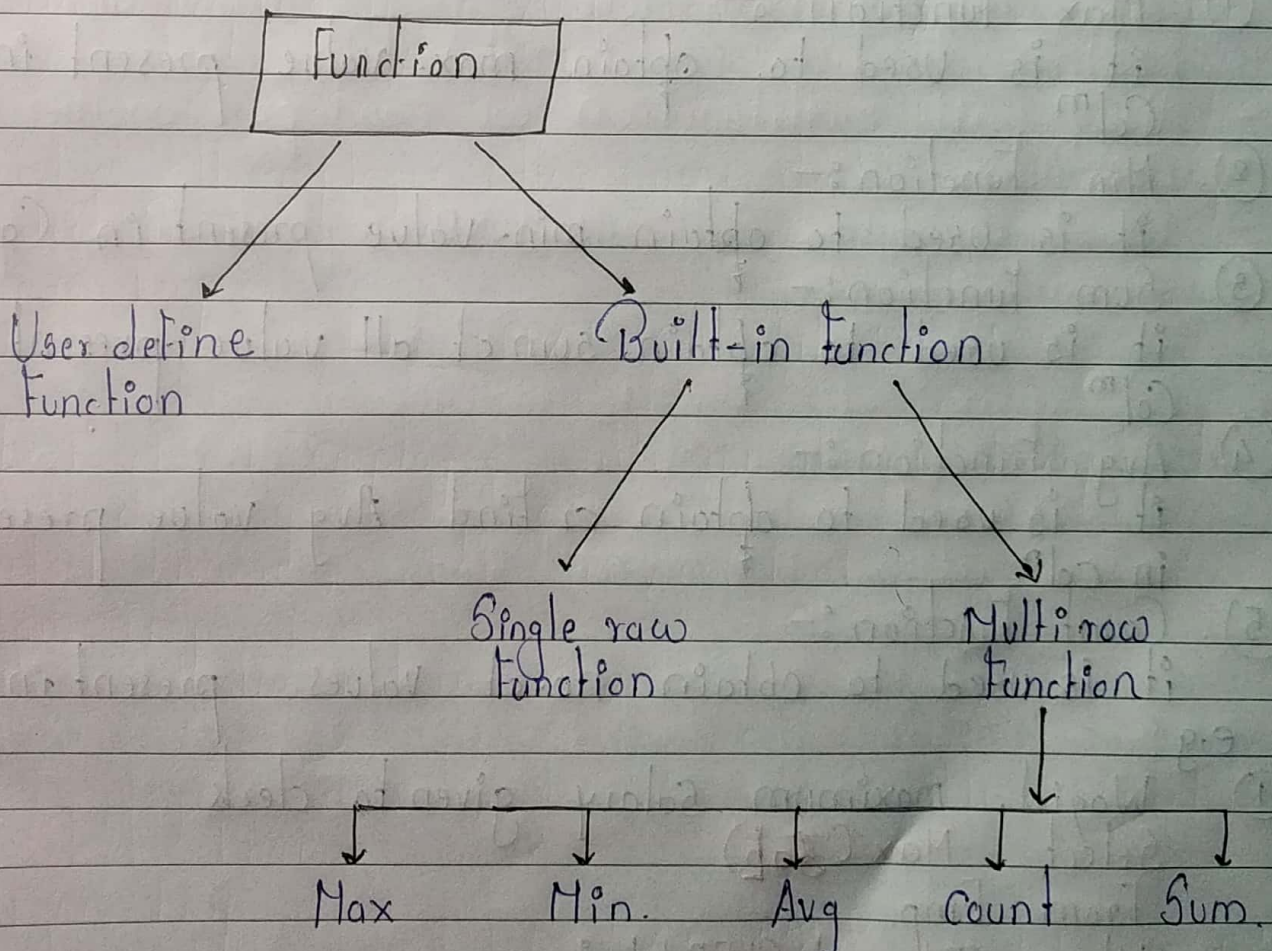
it is block of code or list of instruction which perform same specific task

There are three Component of Function

- ① Function name
- ② Number of argument
- ③ Written type

Function is classified into two types.

- ① Single row Function [SRF]
- ② Multi row Function [MRF]



* Single Row Function :-

if we pass one input we get one output if we pass n input we get n output.

* Multi Row Function / Aggregate Function / ~~Per Group~~ Function :-

if we pass multiple input all get bound together and we get only one output.

Multi Row Function have 5 types

① Max Function :-

it is used to obtain max. value present in Col^m

② Min Function :-

it is used to obtain min. value present in Col^m

③ Sum Function :-

it is used to obtain sum of all value present in Col^m

④ Avg Function :-

it is used to obtain or find Avg value present in Col^m

⑤ Count Function :-

it is used to obtain no. of values present in Col^m

e.g.

① Waged. maximum salary given to clerk

Select Max (Job)

From Emp.

Where Job = 'CLERK' ;

②. Wajid max salary of employee.
Select Max(sal)
From Emp;

③. Wajid min salary given to an analyst.
Select Min(sal)
From Emp.
Where Job = 'ANALYST';

④. Wajid total salary given to manager
Select Sum(sal)
From Emp.
Where Job = 'MANAGER';

⑤. Wajid Average salary given to deptno 20.
Select Avg(sal)
From Emp.
Where ~~Job~~ deptno = 20;

⑥. Wajid no of employee whos working as salesman
Select Count(*)
From Emp.
Where Job = 'SALESMAN';

⑦. Wajid max sal, min sal, number of emp as manager in deptno 10.
Select Max(sal), Min(sal), Count(*)
From Emp.
Where Job = 'MANAGER' AND DEPTNO = 10;

⑧. Wajid. max sal, min sal, sum of sal avg sal along with annual sal of emp. who is working as Salesman in deptno 30

Select Max(sal), Min(sal), Sum(sal), Avg(sal), sal*12 as annual sal

From Emp

Where JOB = 'SALESMAN' AND DEPTNO = 30;

The program will not run

Note :-

- Multirow function only pass one argument that is Colⁿ name or expression
- Multirow function ignores null value
- Along with multifunction we can't pass another name Colⁿ name.
- Count is only multirow function which accept * as argument.

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Assignment

- ①. Wajid number of employee who's getting salary less than 2000 in deptno 10.
Select Count(*)
From Emp
Where Sal < 2000 AND Deptno = 10 ;
- ②. Wajid total salary needed to pay employee working as clerk.
Select Sum(Sal)
From emp
Where Job = 'MANAGER' ;
- ③. Wajid avg sal needed to pay all employee
Select Avg(Sal)
From emp ;
- ④. Wajid ^{Number} name of employee having 'A' as their first character.
Select Count(*)
From emp
Where Fname like 'A%' ;
- ⑤. Wajid number of employee who work as clerk or manager.
Select Count(*)
From emp
Where Job in ('clerk', 'Manager') ;

⑥. Wajid total Salary of employee whos are hired in Feb.

Select Sum(Sal)
From Emp
Where Hiredate like '%Feb%' ;

⑦. Wajid number of employee reporting to 7839 (NAR)

Select Count(*)
From Emp
Where MGR = 7839 ;

⑧. Wajid number of employee whos getting commision in deptno 30

Select Count(*)
From Emp
Where Comm is not null AND deptno = 30 ;

⑨. Wajid Avg Sal, total Sal, number of employee and max sal given to employee as president

Select Avg(Sal), Sum(Sal), Count(*), max(Sal)
From Emp
Where JOB = 'PRESIDENT' ;

⑩. Wajid number of employee Having 'A' in their name

Select Count(*)
From Emp
Where Fname like '%A%' ;

(11) Wajid number of emp and total salary needed to pay the emp who having 2 consecutive 'L' in their name.
Select Count(*), Sum(sal)
From Emp.
Where Ename like '%LL%';

(12) Wajid number of department present in Emp table.
Select Distinct Deptno.
From Emp ;

(13) Wajid number of employee having character 'Z' in their name.
Select Count (*)
From emp.
Where Ename like '%z%';

(14) Wajid number of employee whose having '\$' in their name.
Select Count (*)
From Emp.
Where Ename like '%\$%';

(15) Wajid total sal given to employee working as clerk in deptno 80.
Select Sum(sal)
From Emp.
Where Deptno = 80 ;

(16) What is max sal given to employee working as analyst

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Select Max(Sal)
From Emp
Where Job = 'ANALYST' ;
```

(17) What is number of distinct salaries present in employee table

```
Select distinct Sal
From Emp ;
```

(18) What is number of job present in emp table.

```
Select Count(*) Distinct Job
From Emp ;
```

(19) What is avg sal given to clerk

```
Select Avg(Sal)
From Emp
Where Job = 'clerk' ;
```

(20) What is Min salary given to the employee who work in dept no 10 as manager or clerk

```
Select Min(Sal)
From Emp
Where deptno = 10 AND (Job = 'MANAGER' OR
Job = 'CLERK')
```