MySQL functions

Function: function contains set of instruction to perform a specific task. Some function can take 1 parameter(values) or many parameters(values) and it return the updated value or result.

Function mainly use to do re-usability of the code.

Function mainly divided into 2 types.

1. Pre -defined function or built in function
2. User defined or custom function

Pre-defined function: these functions again divided into two types.

1. Single row function: if we apply any function for particular column value that function functionality apply for each record individually.
2. Multi row function or group functions: if we apply any multi row function the function functionality apply for more than one records base upon group.

Single row function:

String function: these functions we need apply for those columns which hold varchar values or string.

upper(): it will help to convert value in upper case

lower(): it will help to convert value in lower case

select upper('akash');

select lower('AKASH');

select upper('akash') as Names;

**applying function on table**

select sid,sname,upper(sname),age from student;

select sid,sname,upper(sname) as NameInUpperCase,age from student;

length(): this function use to find number of character of that value or column which contains values.

select length('akash');

select length(sname) from student;

select length('akash kale');

substring() : this function help use to make sub string. This function take more than parameter or values.

select substring('Welcome to MySQL Training',4);

1st parameter is value and 2nd parameter start position.

select substring('Welcome to MySQL Training',4,5);

1st parameter is value, 2nd parameter start position and 3rd parameter number of character.

select sname,length(sname) as numberOfNameCharacter,substring(sname,2,2) from student;

replace(): it is use to replace the value.

select replace('Welcome to MySQL Training','MySQL','Python');

1st parameter is value, 2nd parameter search content in value and 3rd parameter replace new contents.

Number functions

1. Round() : this function is use to round up the value after decimal point base upon the value..

select round(245.56345,2);

select round(245.56845,2);

select truncate(245.56345,2);

select truncate(245.56845,2);

1. select floor(10.1); output : 10

select floor(10.9); output : 10

select ceil(10.1); output : 11

select ceil(10.9); output : 11