MySQL FUNCTIONS

Function- It refers to a special type of predifined command set that performs some operation and returns a single value.

THE DIFFERENT TYPES OF FUNCTIONS AVAILABLE IN MYSQL :-

i) Text / String functions
ii) Numeric functions
iii) Date / Time functions

1) TEXT / STRING TYPE FUNCTIONS

Some commonly used string functions are as follows:-

(i) CHAR ()

Returns Character for each integer passed.

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Syntax:-

CHAR (value1 [, value 2 ...])

For example:-

Select CHAR (70, 65, 67, 69)

will return

FACE.

(ii) CONCAT ()

Concates two strings

Syntax:-

CONCAT (str1, str2 ....)

For example:-

Select CONCAT (name, aggregate) AS "Name Marks
From student -> where age = 14 or age = 16;

will return

Name Marks

Aanya 340

Gurvinder 480

Ali 260

Fatimah 400

M.ta 150

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(iii) LOWER / LCASE ()

Converts string into lower case

Syntax:-

LOWER (str)
LCASE (str)

For example:-

Select LOWER ("MR OBAMA") As "Lower Name1",
LOWER ("MS GANDHI") As "Lower Name2";

Will return

Lower Name 1	Lower Name 2
mr. obama	ms. gandhi

(iv) SUBSTR ()

Extracts substring from a given string.

Syntax:-

(i) SUBSTR (str, m [, n]) OR (ii) SUBSTR (str From m For n)

For example:-

Select SUBSTR ('ABCDEFG', 3, 4) "Subs";

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will return

Subs

CDEF

(v) UPPER / UCASE ()

Converts given string into Upper Case.

Syntax:-

- Upper(str) - UCASE (str)

Example:-

Select Upper('large') "uppercase";

(vi) LTRIM()

Syntax:-

LTRIM(str)

For example:-

Select LTRIM (' RDMS MYSQL ');

(vii) RTRIM()

Syntax:-

RTRIM(str)

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Example:-

Select RTRIM (' RDMS MYSQL ');

(viii) TRIM ()

Syntax:-

TRIM ([{BOTH | Leading | Trailing } [remstr] FROM] str)
TRM ([remstr From] str)

Example:-

Select TRIM (' Bar One ');

(ix) INSTR ()

Syntax:-

INSTR (str1, str2)

Example:-

Select INSTR ('Corporate Floor', 'or') As Instring;

(x) Length ()

Syntax:-

Length (str)

Example:-

Select length ('Candide') "length in characters";

(xi) Left ()

Syntax:-

Left (str, len)

Example:-

Select Left ('USS/23/67/09', 3);

(xii) Right

Syntax:-

Right (str, len)

Example:-

Select Right ('USS/23/67/09', 2);

(xiii) Mid ()

Syntax:-

MID (str, pos, len)

Example:-

Select Substring ('Quadratically', 5, 6);

Select MID ('Quadratically', 5, 6);

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2) NUMERIC FUNCTIONS

Are those functions that accept numeric values and after performing the requried operation. return those numeric values.

(i) MOD(-)

Syntax:- MOD(m,n), M%N, M MOD N

Example:- Select Mod (6,5);

will show

1

(ii) Power/Pow()

Syntax:- Power (m,n) or Pow(m,n)

Example:- Select power(2,3);

will show

8.

(iii) Round()

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Round function will accept two kinds of parameters:-

(i) The numeric value containing decimal values.

(ii) With +ve or -ve integer which will determine the position from which the rounding has to be done.

The 2nd parameter can be of 2 types i.e; +ve/-ve. If we pass +ve values then it will try to round off the values before the decimal point.

Syntax:- Round (n [, m])

Example :-(i) Select round (65.53, -1);

will show

70

(ii) Select round (6232.567, 1);

will show

6232.6

(iii) Sign ()

Returns sign of a given number

Syntax:- Sign (n)

Example:-(i) Select sign (-10);

will show

-1

(ii) Select sign (10);

will show

1

(iii) Select sign (0);

will show

0

(v) SQRT ()

Returns squarne root of a given numbers.

Syntax:- SQRT (n)

Example:- Select sqrt (16);

will show

4.

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(vi) TRUNCATE ()

Returns a number with some digits truncated.

Syntax:- Truncate (n, m).

Example:-(i) Select truncate (646465.6767, -2);

will show

646400.

(ii) Select truncate (646465.6767, 2);

will show

646465.67

(

3) DATE / TIME FUNCTIONS ()

Are those functions which operate on values of the DATE datatypes.

(i) CURDATE / CURRENT_DATE ()

Syntax:- Cundate () OR Current_date () or

(i

Current_date (

Example :- Select Curdate () + 10;

Will show

2021 - 04 - 29 (current date)

(ii) Date ()

Syntax:- Date (expr)

Example :- Select date ('2008-12-31 01:02:03');

will show

2008 - 12-31

(iii) Month ()

Syntax:- Month (date)

Example:- Select month ('2009-02-03');

will show

2

(iv) MonthName ()

Syntax:- Month Name (date)

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Example:- Select MonthName ('2020-05-01');

will show

May.

(v) Day ()

Syntax:- Day (date)

Example:- Select day ('2020-04-13');

will show

13.

(vi) Year ()

Syntax:- Year (date)

Example:- Select Year ('2009-02-03');

will show

2009.

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(vii) DAYNAME ()

Syntax:- Dayname (date)

Example:- Select dayname ('2009-02-03');

will show

Tuesday.

(viii) DAY OF MONTH ()

Syntax:- Day of month (date)

Example:- Select day of month ('2009-02-03');

will show

3.

(ix) DAY OF WEEK ()

Syntax:- Day of week ()

Example :- ~~Day of~~

Select Day of Week ('2009-02-13');

will show

6

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(x) DAY OF YEAR ()

Syntax:- DAY OF YEAR (date)

Example:- Select day of year ('2009-02-13');

will show

44.

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