

Date functions in mysql

1. To get the current date and time, you use NOW() function. This will print date and time both

Mysql >SELECT NOW();

2. To get only date part of a DATETIME value, you use the DATE() function. Removes time portion

SELECT DATE(NOW());

3. To get the current system date, you use CURDATE() function as follows:

SELECT CURDATE();

4. To format a date value, you use DATE_FORMAT function. The following statement formats the date as mm/dd/yyyy using the date format pattern %m/%d/%Y :

SELECT DATE_FORMAT(CURDATE(), '%m/%d/%Y') today;

+-----+

| today |

+-----+

| 07/13/2015 |

+-----+

1 row in set (0.02 sec)

SELECT DATE_FORMAT(CURDATE(), '%M, %D %y') today; ----- y will show 2 digit year

Y --- will display 4 digit year

M- month name in character

m-month in number

d- date in number

D- display th or st after date

```
+-----+
```

```
| today      |
```

```
+-----+
```

```
| September, 21st 18 |
```

```
+-----+
```

1 row in set (0.00 sec)

5. To calculate the number of days between two date values, you use the DATEDIFF function as follows:

```
SELECT DATEDIFF('2015-11-04','2014-11-04') days;
```

```
+-----+
```

```
| days |
```

```
+-----+
```

```
| 365 |
```

```
+-----+
```

1 row in set (0.02 sec)

6. To add a number of days, weeks, months, years, etc., to a date value, you use the DATE_ADD function:

```
SELECT
```

```
'2015-01-01' start,
```

```
DATE_ADD('2015-01-01', INTERVAL 1 DAY) 'one day later',
```

```
DATE_ADD('2015-01-01', INTERVAL 1 WEEK) 'one week later',
```

```
DATE_ADD('2015-01-01', INTERVAL 1 MONTH) 'one month later',
```

```
DATE_ADD('2015-01-01', INTERVAL 1 YEAR) 'one year later';
```

```
Date_add(DATE_ADD('2015-01-01', INTERVAL 2 YEAR), INTERVAL 6 MONTH)
```

7. Similarly, you can subtract an interval from a date using the DATE_SUB function:

```
SELECT
```

```
'2015-01-01' start,
```

```
DATE_SUB('2015-01-01', INTERVAL 1 DAY) 'one day before',
DATE_SUB('2015-01-01', INTERVAL 1 WEEK) 'one week before',
DATE_SUB('2015-01-01', INTERVAL 1 MONTH) 'one month before',
DATE_SUB('2015-01-01', INTERVAL 1 YEAR) 'one year before';
```

8. If you want to get the day, month, quarter, and year of a date value, you can use the corresponding function DAY, MONTH, QUARTER, and YEAR as follows:

```
SELECT DAY('2000-12-31') day,
       MONTH('2000-12-31') month,
       QUARTER('2000-12-31') quarter,
       YEAR('2000-12-31') year;
```

```
+-----+-----+-----+-----+
| day | month | quarter | year |
+-----+-----+-----+-----+
| 31 | 12 | 4 | 2000 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

9. To get the week information week related functions. For example, WEEK function returns the week number, WEEKDAY function returns the weekday index, and WEEKOFYEAR function returns the calendar week.

```
SELECT
       WEEKDAY('2000-12-31') weekday,
       WEEK('2000-12-31') week,
       WEEKOFYEAR('2000-12-31') weekofyear;
```

```
+-----+-----+-----+
| weekday | week | weekofyear |
+-----+-----+-----+
| 6 | 53 | 52 |
+-----+-----+-----+
1 row in set (0.04 sec)
```

10. The week function returns the week number with the zero-based index if you don't pass the second argument or if you pass 0. If you pass 1, it will return week number with 1-indexed.

```
SELECT
```

```
WEEKDAY('2000-12-31') weekday,  
WEEK('2000-12-31',1) week,  
WEEKOFYEAR('2000-12-31') weekofyear;
```

```
+-----+-----+-----+  
| weekday | week | weekofyear |
```

```
+-----+-----+-----+  
|    6 | 52 |    52 |
```

```
+-----+-----+-----+
```

1 row in set (0.00 sec)

```
select extract(day from curdate());
```

```
select extract(month from curdate()); ----- to retrieve month
```

```
select extract(year from curdate()); -----to retrieve year
```

```
+-----+  
| extract(day from curdate()) |
```

```
+-----+  
|          21 |
```

```
+-----+
```

----- to display month in characters

```
select monthname(curdate());
```

```
+-----+  
| monthname(curdate()) |
```

```
+-----+  
| September          |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> select dayname(curdate());
```

dayname(curdate())
Friday

1 row in set (0.00 sec)