

**DATE Functions:** - Perform operation over date values

Different types of date functions are

1. NOW()/SYSDATE()
2. DATE()
3. MONTH()
4. MONTHNAME()
5. YEAR()
6. DAY()
7. DAYOFMONTH()
8. DAYOFWEEK()
9. DAYOFYEAR()
10. DAYNAME()
11. curdate()/current\_date()/current\_date

**NOW()/SYSDATE():**Returns the current date and time as a value in 'YYYY-MM-DD hh:mm:ss' or YYYYMMDDhhmmss format, depending on whether the function is used in string or numeric context

```
Mysql > SELECT NOW();
```

```
2024-02-16 10:25:58
```

There is slight difference between these two functions that now() returns a constant time after execution. Sysdate() returns the exact time when the command is executed including seconds

---

**DATE(expr)**-Extracts the date part of the date or datetime expression expr

```
Mysql > SELECT DATE('2024-02-16 10:27:59');
```

```
2024-02-16
```

```
Mysql > select date(now());
```

```
2024-02-16
```

---

**MONTH(date)**-Returns the month for date, in the range 1 to 12 for January to December, or 0 for dates such as '0000-00-00' or '2008-00-00' that have a zero month part.

```
Mysql > SELECT MONTH('24-02-16 10:27:59');
```

```
2
```

```
Mysql > select month(now());
```

```
2
```

---

**MONTHNAME(date)**-Returns the full name of the month for date

```
Mysql > SELECT MONTHNAME('2024-02-03');
```

```
February
```

---

**YEAR(date)**-Returns the year for date, in the range 1000 to 9999, or 0 for the "zero" date

```
Mysql > SELECT YEAR('2024-01-01');
```

```
2024
```

---

**DAY(date)**-Returns the day of the month for date, in the range 1 to 31, or 0 for dates such as '0000-00-00' or '2008-00-00' that have a zero day part

```
Mysql > SELECT DAY('2007-02-03');
```

```
Mysql > SELECT DAYOFMONTH('2024-02-03');
```

```
3
```

```
Mysql > select day(curdate());
```

```
3
```

---

### **dayofweek()**

It returns the day number of the week from the specified date. It starts with Sunday=1.

```
Mysql > select dayofweek(now());
```

6

---

### **dayofyear()**

It returns the day number from the year.

```
Mysql > select dayofyear('2020-02-02');
```

33

---

**DAYNAME(date)**-Returns the name of the weekday for date.

```
Mysql > SELECT DAYNAME('2024-02-03');
```

'Saturday'

---

### **curdate()/current\_date()/current\_date:**

This function is used to display date value in 'YYYY-MM-DD' or 'YYYYMMDD' format.

```
Mysql > select curdate();
```

Output:

2024-02-16

```
Mysql > select current_date();
```

Output:

2024-02-16

```
Mysql > select current_date;
```

Output:

2024-02-16