**SQL Date function:**

**MySQL** comes with the following data types for storing a date or a date/time value in the database:

* DATE - format YYYY-MM-DD
* DATETIME - format: YYYY-MM-DD HH:MI:SS
* TIMESTAMP - format: YYYY-MM-DD HH:MI:SS
* YEAR - format YYYY or YY

**For today’s date:**

select current\_date();

select curdate();

**for today’s date and time:**

select sysdate();

select now();

**Date function:**

**when we use date function, in output only date come.**

select date("1995-12-14 01:34:52");

select date("1995-12-14 01:34:52") as DATE;

**Month function:**

**when we use month function, in output only month come.**

select month("1995-12-14 01:34:52");

select month("1995-12-14 01:34:52") as MONTH;

**Month Name function:**

**when we use month Name function, in output only month Name come.**

select monthname("1995-12-14 01:34:52");

select monthname("1995-12-14 01:34:52") as MONTH;

**year function:**

**when we use year function, in output only year come.**

select year("1995-12-14 01:34:52");

select year("1995-12-14 01:34:52") as YEAR;

**Quarter function:**

**when we use quarter function, in output only quarter come.**

select quarter("1995-12-14 01:34:52");

select quarter("1995-12-14 01:34:52") as QUARTER;

january-march – Q1

April-june – Q2

July-sep – Q3

Oct – dec – Q4

**Day function:**

**when we use Day function, in output only Day come.**

select day("1995-12-14 01:34:52");

select day("1995-12-14 01:34:52") as DAY;

**or:**

select dayofmonth("1995-12-14 01:34:52");

select dayofmonth("1995-12-14 01:34:52") as DAY;

**Dayname function:**

**when we use Dayname function, in output only Dayname come.**

select dayname("1995-12-14 01:34:52");

select dayname("1995-12-14 01:34:52") as DAYNAME;

**Dayofyear function: (total 365 days)**

**when we use Dayofyear function, in output only Dayofyear come.**

select dayofyear("1995-12-14 01:34:52");

select dayofyear("1995-12-14 01:34:52") as DAYOFYEAR;

**Week function: (how many week in a year? – 52 or 53)**

**when we use week function, in output only week come.**

select week("1995-12-14 01:34:52");

select week("1995-12-14 01:34:52") as WEEK;

**YearWeek function:**

**when we use yearweek function, in output only year and week come.**

select yearweek("1995-12-14 01:34:52");

select yearweek("1995-12-14 01:34:52") as yw;

**last\_day function: (last date of the month)**

select last\_day("1995-12-14 01:34:52");

select last\_day("1995-02-14 01:34:52") as ld;

**Extract function:**

select extract(year from "1995-2-14 01:34:52");

select extract(month from "1995-2-14 01:34:52");

select extract(day from "1995-2-14 01:34:52");

select extract(week from "1995-2-14 01:34:52");

select extract(quarter from "1995-2-14 01:34:52");

select extract(year\_month from "1995-2-14 01:34:52");

select extract(hour from "1995-2-14 01:34:52");

select extract(minute from "1995-2-14 01:34:52");

select extract(second from "1995-2-14 01:34:52");

select extract(day\_hour from "1995-2-14 01:34:52");

select extract(day\_minute from "1995-2-14 01:34:52");

select extract(day\_second from "1995-2-14 01:34:52");

**Adddate function: (add 10 days, 1 month)**

select ADDDATE("2022-12-14" , interval 10 day);

select ADDDATE("2022-12-14" , interval 1 week);

select ADDDATE("2022-12-14" , interval 1 month);

select ADDDATE("2022-12-14" , interval 1 quarter);

select ADDDATE("2022-12-14" , interval 1 year);

select ADDDATE("2022-12-14" , interval 24 hour);

select ADDDATE("2022-12-14" , interval 48 hour);

select ADDDATE("2022-12-14" , interval 50000 minute);

**Subdate (subtract) function: (MINUS DAYS, MONTH..)**

select SUBDATE("2022-12-14" , interval 10 day);

select SUBDATE("2022-12-14" , interval 1 week);

select SUBDATE("2022-12-14" , interval 1 month);

select SUBDATE("2022-12-14" , interval 1 quarter);

select SUBDATE("2022-12-14" , interval 1 year);

**Makedate function: (you will make only January month date)**

Select makedate(2022,14);

Select makedate(2011,2);

**Datediff function:**

select DATEDIFF("2022-12-14" , "2023-1-14");

select DATEDIFF("2024-12-14" , "2020-1-14");

select DATEDIFF("2017-10-13" , "2015-10-17");

**Date\_format function:**

select DATE\_FORMAT("2017-10-13" , "%Y") as year;

select DATE\_FORMAT("2017-10-13" , "%M%Y") as date;

select DATE\_FORMAT("2017-10-13" , "%D%M%Y") as date;

select DATE\_FORMAT("2017-10-13" , "%y") as year;

select DATE\_FORMAT("2017-10-13" , "%m%y") as date;

select DATE\_FORMAT("2017-10-13" , "%d%m%y") as date;