**To get datetime column**

Since sale\_date >= '2024-01-15' and sale\_date <= '2024-11-28’

cannot get 2024-11-28 00:00:00 to 2024-11-28 00:59:59

Solution :

1. Add 23:59:59 at the end

select name , sale\_date from sales where sale\_date >= '2024-01-15' and sale\_date <= '2024-11-28 23:59:59';

1. Add date() function:

select name , sale\_date from sales where date(sale\_date) >= '2024-01-15' and date(sale\_date) <= '2024-11-28';

or

select name , sale\_date from sales where date(sale\_date) between '2024-01-15' and '2024-11-28';

1. Use interval

select \* from sales where sale\_date >= '2024-01-01' and sale\_date < '2024-11-28'+ interval 1 day;

Small difference:

sale\_date < '2024-11-28' + INTERVAL 1 DAY

'2024-11-28' + INTERVAL 1 DAY = '2024-11-28 00:00:00' + 1 day = '2024-11-29 00:00:00'

Sale\_date < '2024-11-29 00:00:00'

Sale\_date <= ‘2024-11-28’ + INTERVAL 1 DAY

‘2024-11-28’ + INTERVAL 1 DAY = '2024-11-28 00:00:00' + 1 day = '2024-11-29 00:00:00'

Sale\_date <= '2024-11-29 00:00:00'

=================================================================

**To get date range , always:**

>= xx-xx-xx and <= xx-xx-xx

between xx-xx-xx and xx-xx-xx

str\_to\_date() is only to format the date ,. It is just 雕花.

A screenshot of a computer

AI-generated content may be incorrect.

Purpose: prevent When the format of datetime column is different from the query dateformat.

will cannot find result.

select now() + interval 1 day from sales;

If current is 2025-05-29 13:53:01, then 2025-05-30 13:53:01

str\_to\_date() and date\_format()

date\_format()

- select statement : nice display , for output

SELECT date\_format(now(), '%Y-%m-%d %H:%i:%s') as formatted\_date;

- Converts date to string: for substring use

- oringial DB type is date/datetime

str\_to\_date()

- Converts strings to dates: for calculation, for input

- original DB type is string

The choice between the two depends on how the sales\_date data is stored in the database and what you need to do with it

Review point:

1. What is three method to select datetime range accurately include last day end time ?
2. What is two methods to select datetime range?
3. Small differences between <= ‘now()’ + INTERVAL 1 DAY and < now() + INTERVAL 1 DAY.
4. What str\_to\_date() do?
5. Answer of now() + interval 1 day.
6. What is diffenece between str\_to\_date() and date\_format()?