

Date & Time Functions

Get the date and time right now

POSTGRESQL	MYSQL	REDSHIFT	SNOWFLAKE	BIGQUERY
<pre>SELECT now(); -- timestamp</pre>	<pre>SELECT now();</pre>	<pre>SELECT now(); --string SELECT sysdate; --timestamp</pre>	<pre>SELECT CURRENT_TIMESTAMP; -- timestamp</pre>	<pre>SELECT CURRENT_DATETIME(); SELECT CURRENT_TIMESTAMP();</pre>
Date				
<pre>SELECT current_date;</pre>	<pre>SELECT curdate;</pre>	<pre>SELECT current_date;</pre>	<pre>SELECT CURRENT_DATE;</pre>	<pre>SELECT CURRENT_DATE();</pre>
Time in timestamp format				
<pre>SELECT now(); SELECT current_time;</pre>	<pre>SELECT curtime;</pre>	<pre>SELECT current_time;</pre>	<pre>SELECT CURRENT_TIME;</pre>	<pre>SELECT CURRENT_TIMESTAMP();</pre>

Find rows between two absolute timestamps

+5	POSTGRESQL, MYSQL, REDSHIFT, SNOWFLAKE & BIGQUERY
Assumes midnight of date specified	Specify in YYYY-MM-DD hh:mm:ss format to include time in result
<pre>SELECT * FROM table WHERE time BETWEEN '2019-01-01' AND '2019-01-31'</pre>	<pre>SELECT * FROM table WHERE time BETWEEN '2019-01-01 12:00:00' AND '2019-01-31 23:30:00'</pre>

Find rows from last week

POSTGRESQL	MYSQL	REDSHIFT	SNOWFLAKE	BIGQUERY
<pre>SELECT * FROM table WHERE time > interval '1 week'; -- or '1 week'::interval, as you like</pre>	<pre>SELECT * FROM table WHERE time > DATE_SUB(now(), interval 1 week);</pre>	<pre>SELECT * FROM table WHERE time > DATEADD(week, -1, sysdate);</pre>	<pre>SELECT * FROM table WHERE time > DATEADD(week, -1, CURRENT_TIMESTAMP);</pre>	<pre>SELECT * FROM table WHERE time > TIMESTAMP_SUB(CURRENT_TIMESTAMP, INTERVAL 168 HOUR);</pre>

Find rows between 1 and 2 weeks ago

POSTGRESQL	MYSQL	REDSHIFT	SNOWFLAKE	BIGQUERY
<pre>SELECT * FROM table WHERE time BETWEEN (now() - interval '1 week') AND (now() - interval '2 weeks');</pre>	<pre>SELECT * FROM table WHERE time BETWEEN date_sub(now(), interval 2 week) AND date_add(now(), interval 1 week);</pre>	<pre>SELECT * FROM table WHERE time BETWEEN date_sub(now(), interval 2 week) AND date_add(now(), interval 1 week);</pre>	<pre>SELECT * FROM table WHERE time BETWEEN DATEADD(week, -2, CURRENT_TIMESTAMP) AND DATEADD(week, -1, CURRENT_TIMESTAMP);</pre>	<pre>SELECT * FROM table WHERE time BETWEEN TIMESTAMP_SUB(CURRENT_TIMESTAMP, INTERVAL 336 HOUR) AND TIMESTAMP_SUB(CURRENT_TIMESTAMP, INTERVAL 168 HOUR);</pre>

Extract part of a timestamp

POSTGRESQL	MYSQL	REDSHIFT	SNOWFLAKE	BIGQUERY
<pre>SELECT date_part('year', now()); -- or hour, day, month</pre>	<pre>SELECT year(now()); -- or month(), day(), hour(), minute(), second()</pre>	<pre>SELECT extract(minute from sysdate); -- or hour, day, month, year, century SELECT date_part(minute, sysdate); -- or hour, day, month, year, century</pre>	<pre>SELECT EXTRACT(minute from CURRENT_TIMESTAMP); -- or hour, day, month, year</pre>	<pre>SELECT EXTRACT(MINUTE from CURRENT_TIMESTAMP); -- or hour, day, month, year</pre>

Get day of week from a timestamp

POSTGRESQL	MYSQL	REDSHIFT	SNOWFLAKE	BIGQUERY
Returns an integer corresponding to day of week				
<pre>SELECT date_part('dow',now()); -- returns 0-6, where 0 is Sunday and 6 is Saturday</pre>	<pre>SELECT dayofweek('2019-12-12'); -- returns 1-7, where 1 is Sunday and 7 is Saturday</pre>	<pre>SELECT extract(dow from sysdate); -- returns 0-6, where 0 is Sunday and 6 is Saturday</pre>	<pre>SELECT extract(dow from CURRENT_TIMESTAMP); -- returns 0-6, where 0 is Sunday and 6 is Saturday</pre>	<pre>SELECT extract(DAYOFWEEK from CURRENT_TIMESTAMP); -- returns 1-7, where 1 is Sunday and 7 is Saturday</pre>
Returns a string like Monday or December				
<pre>SELECT to_char(now(), 'day'); -- or month</pre>	<pre>SELECT dayname(now()); -- or monthname()</pre>	<pre>SELECT to_char(now(), 'day'); -- or month</pre>	<pre>SELECT DAYNAME(CURRENT_TIMESTAMP); -- results abbreviated, e.g. 'Tue'. Use MONTHNAME() for 'Dec'. SELECT TO_CHAR(CURRENT_TIMESTAMP, 'DY'); -- gives full results, e.g. 'Tuesday'.For month, use 'MMMM'</pre>	<pre>SELECT FORMAT_DATE('%a', CURRENT_DATE); -- results abbreviated, e.g. 'Tue'. Use '%A' for full length. Use '%b' or '%B' for abbreviated and full month, respectively.</pre>

Convert a timestamp to a unix timestamp (integer seconds)

What is a Unix Timestamp?

The unix timestamp is a way to track time as a running total of seconds, ever since the Unix Epoch on January 1st, 1970 at UTC. This is very useful to computer systems for tracking and sorting dated information in dynamic and distributed applications both online and on the client side.

POSTGRESQL	MYSQL	REDSHIFT	SNOWFLAKE	BIGQUERY
Assumes midnight of date specified				
<pre>SELECT date_part('epoch', '2019-12-09');</pre>	<pre>SELECT date_part('epoch', '2019-12-09');</pre>	<pre>SELECT DATE_PART(epoch, TO_TIMESTAMP('2019-12-09'));</pre>	<pre>SELECT UNIX_SECONDS(TIMESTAMP('2019-12-09'));</pre>	<pre>SELECT UNIX_SECONDS(TIMESTAMP('2019-12-09 14:53:21'));</pre>
You can specify an exact timestamp to be converted down to the second				
<pre>SELECT date_part('epoch', '2019-12-09 14:53:21');</pre>	<pre>SELECT date_part('epoch', '2019-12-09 14:53:21');</pre>	<pre>SELECT DATE_PART(epoch, TO_TIMESTAMP('2019-12-09 14:53:21'));</pre>	<pre>SELECT unix_timestamp('2019-12-09 14:53:21');</pre>	<pre>SELECT unix_timestamp('2019-12-09');</pre>

Calculate the difference between two timestamps

POSTGRESQL	MYSQL	REDSHIFT	SNOWFLAKE	BIGQUERY
<pre>SELECT date_part('epoch', '2019-12-31') - date_part('epoch', '2019-01-01'); -- or minute, hour, week, day, etc SELECT extract(epoch from '2019-12-31') -extract(epoch from '2019-01-01'); -- alternatively done using</pre>	<pre>SELECT unix_timestamp('2019-12-31') - unix_timestamp('2019-01-01'); SELECT sec_to_time(unix_timestamp('20 19-12-31') - unix_timestamp('2019-01-01')); -- convert computed difference to hh:mm:ss format</pre>	<pre>SELECT datediff(second, '2019-01-01', '2019-12-31'); -- or hour, week, month, year</pre>	<pre>SELECT DATEDIFF(second, '2019-01-01', '2019-12-31'); -- or hour, week, month, year</pre>	<pre>SELECT UNIX_SECONDS(TIMESTAMP('2019-12-31')) - UNIX_SECONDS(TIMESTAMP('2019-01-01')); -- only need TIMESTAMP() if data is not yet timestamp SELECT TIMESTAMP_DIFF('2019-12-31 12:00:00' '2019-01-01 12:00:00',SECOND); -- alternatively you can use TIMESTAMP_DIFF, or DATE_DIFF depending on the datatype of schema</pre>



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