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# **TIMESTAMP & EXTRACT FUNCTIONS IN SQL**

SQL Series Part 8

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# TIMESTAMP

In SQL, we use date and time data types to **store calendar information**.

**TIME** contains only time, format HH:MI:SS

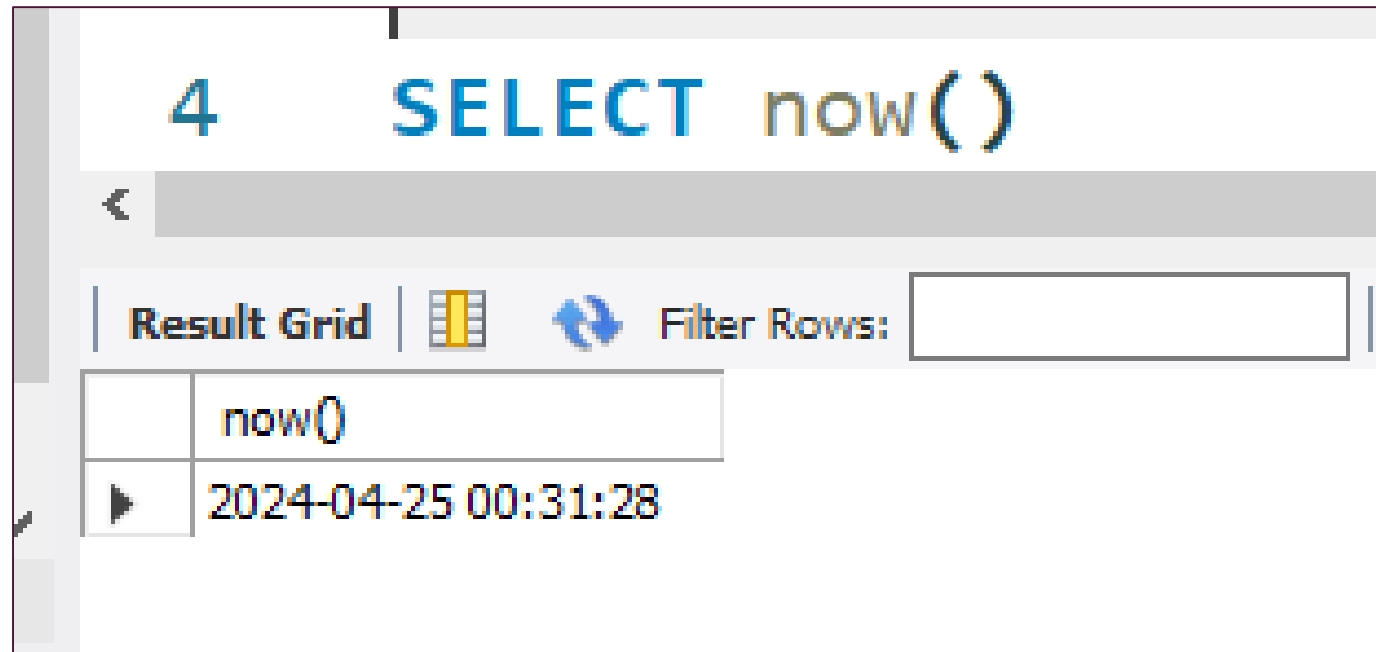
**DATE** contains on date, format YYYY-MM-DD

**YEAR** contains on year, format YYYY or YY



**TIMESTAMP** contains date and time, format YYYY-MM-DD HH:MI:SS

**TIMESTAMPPTZ** contains date, time and time zone

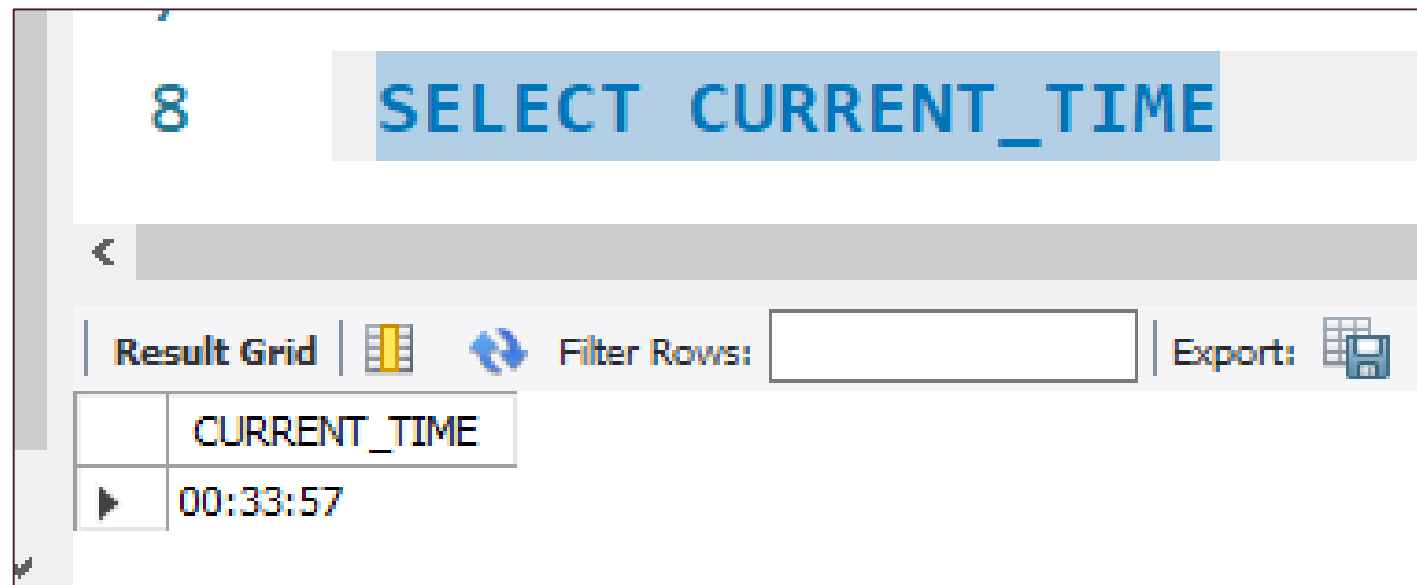
## TIMESTAMP FUNCTIONS – NOW()



The screenshot shows a SQL query editor with the query `SELECT now()` entered. Below the query, there is a toolbar with options for 'Result Grid', a grid icon, a refresh icon, and a 'Filter Rows' input field. The query has been executed, and the result is displayed in a table with one row containing the timestamp '2024-04-25 00:31:28'.

4	<code>SELECT now()</code>
<	
Result Grid	  Filter Rows: <input type="text"/>
	<code>now()</code>
▶	2024-04-25 00:31:28

# TIMESTAMP FUNCTIONS – CURRENT\_TIME



The screenshot shows a SQL query editor with the query `SELECT CURRENT_TIME` highlighted. Below the query, there is a toolbar with options like 'Result Grid', 'Filter Rows', and 'Export'. The 'Result Grid' is selected, and the results are displayed in a table with one row containing the value '00:33:57'.

	CURRENT_TIME
▶	00:33:57

# TIMESTAMP FUNCTIONS – CURRENT\_DATE

10

```
SELECT CURRENT_DATE
```



Result Grid



Filter Rows:

Export:







	CURRENT_DATE
▶	2024-04-25

# EXTRACT FUNCTIONS – MONTH

```
14 SELECT EXTRACT(MONTH FROM date) as month, date
15 FROM date;
```

<

Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 

	month	date
▶	6	2017-06-01
	6	2017-06-02
	6	2017-06-03
	6	2017-06-04
	6	2017-06-05
	6	2017-06-06
	6	2017-06-07

Result 5 of 5

# EXTRACT FUNCTIONS – YEAR

```
17 • SELECT EXTRACT(YEAR FROM date) as year, date  
18 FROM date;
```

< **Result Grid**   Filter Rows:  | Export:  | Wrap Cell Content: 

	year	date
▶	2017	2017-06-01
	2017	2017-06-02
	2017	2017-06-03
	2017	2017-06-04
	2017	2017-06-05
	2017	2017-06-06
	2017	2017-06-07

Result 6

## EXTRACT FUNCTIONS – DAY

```
20 • SELECT EXTRACT(day FROM date) as day, date  
21 FROM date;
```

&lt;

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	day	date
▶	1	2017-06-01
	2	2017-06-02
	3	2017-06-03
	4	2017-06-04
	5	2017-06-05
	6	2017-06-06
	7	2017-06-07




Result 7



# EXTRACT FUNCTIONS – QUARTER

```
23 • SELECT EXTRACT(QUARTER FROM date) as qtr, date  
24 FROM date;
```

<

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	qtr	date
▶	2	2017-06-01
	2	2017-06-02
	2	2017-06-03
	2	2017-06-04
	2	2017-06-05
	2	2017-06-06
	2	2017-06-07

Result 8



# THANK YOU!!!

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