

```
testPSQS01 :) create database if not exists demo ;
```

```
CREATE DATABASE IF NOT EXISTS demo
```

```
Query id: afb67399-7bfe-4261-a01b-15c2e16891a5
```

```
Ok.
```

```
0 rows in set. Elapsed: 0.040 sec.
```

```
testPSQS01 :) SHOW DATABASES;
```

```
SHOW DATABASES
```

```
Query id: 2ef1cb74-a57c-4715-98b1-7a405e0a1e1f
```

	name
1.	INFORMATION_SCHEMA
2.	default
3.	demo
4.	information_schema
5.	system

```

testPSQS01 :) create table if not exists demo.sales
(
    sale_id          String,
    sale_date_str    LowCardinality(String),      -- DD-MM-YYYY
    store_id         LowCardinality(String),
    product_id       LowCardinality(String),
    quantity         UInt16,
    sale_date        Date MATERIALIZED toDate(parseDateTimeBestEffort(sale_date_str)),
    sale_yyyymm      UInt32 MATERIALIZED toYYYYMM(sale_date),
    sale_dow         UInt8  MATERIALIZED toUInt8(toDayOfWeek(sale_date)) -- 1=Mon ... 7=Sun
)
engine = MergeTree
    partition by sale_yyyymm
    order by (sale_date, store_id, product_id) ;

CREATE TABLE IF NOT EXISTS demo.sales
(
    `sale_id` String,
    `sale_date_str` LowCardinality(String),
    `store_id` LowCardinality(String),
    `product_id` LowCardinality(String),
    `quantity` UInt16,
    `sale_date` Date MATERIALIZED toDate(parseDateTimeBestEffort(sale_date_str)),
    `sale_yyyymm` UInt32 MATERIALIZED toYYYYMM(sale_date),
    `sale_dow` UInt8 MATERIALIZED toUInt8(toDayOfWeek(sale_date))
)
ENGINE = MergeTree
PARTITION BY sale_yyyymm
ORDER BY (sale_date, store_id, product_id)

Query id: e6c87231-4827-4807-885b-d22f18df5ed0

Ok.

0 rows in set. Elapsed: 0.048 sec.

```

TE AS. (SYNTAX_ERROR)

```
root@testPSQS01:/home/administrator# clickhouse-client --host localhost --port 9000 --database demo --query "
INSERT INTO sales (sale_id, sale_date_str, store_id, product_id, quantity)
```

SETTINGS

```
    input_format_csv_skip_first_lines = 1,
    date_time_input_format = 'best_effort'
```

```
FORMAT CSV" < /home/administrator/sales.csv
```

```
root@testPSQS01:/home/administrator# clickhouse-client --host localhost --port 9000 --database demo
```

ClickHouse client version 25.12.4.35 (official build).

Connecting to database demo at localhost:9000 as user default.

Connected to ClickHouse server version 25.12.4.

Warnings:

- * Delay accounting is not enabled, OSIOWaitMicroseconds will not be gathered. You can enable it using 'sudo sh -c 'ctl.

- * Maximum number of threads is lower than 30000. There could be problems with handling a lot of simultaneous queries.

```
testPSQS01 :) select * from demo.sales limit 5;
```

```
SELECT *
FROM demo.sales
LIMIT 5
```

Query id: 679bdc46-3d0f-441a-b69d-3245f428a923

	sale_id	sale_date_str	store_id	product_id	quantity
1.	JX-245993	01-01-2020	ST-1	P-10	4
2.	AQ-57663	01-01-2020	ST-1	P-26	4
3.	NV-9592	01-01-2020	ST-1	P-35	7
4.	BX-44914	01-01-2020	ST-1	P-43	6
5.	JZ-23430	01-01-2020	ST-10	P-11	3

5 rows in set. Elapsed: 0.013 sec. Processed 18.00 thousand rows, 292.80 KB (1.41 million rows/s., 22.94 MB/s.)

Y sales_dow. Maybe you meant: ['sale_dow']. (UNKNOWN_IDENTIFIER)

testPSQS01 :) select sale_dow, count(product_id) from sales group by sale_dow;

```
SELECT
    sale_dow,
    count(product_id)
FROM sales
GROUP BY sale_dow
```

Query id: 443a6cd9-d485-4579-aa4d-84d7afb51ee1

	sale_dow	count(product_id)
1.	1	148341
2.	2	149201
3.	3	148649
4.	4	148313
5.	5	148487
6.	6	148036
7.	7	149173

7 rows in set. Elapsed: 0.035 sec. Processed 1.04 million rows, 2.14 MB (29.68 million rows/s., 61.16 MB/s.)
Peak memory usage: 629.70 KiB.

testPSQS01 :) █

```
testPSQS01 :) select quantity, count() from sales where product_id = 'P-39' and quantity < 3 group by quantity;
```

```
SELECT
    quantity,
    count()
FROM sales
WHERE (product_id = 'P-39') AND (quantity < 3)
GROUP BY quantity
```

Query id: f836e009-2278-45b3-8e1f-01367d68d97b

	quantity	count()
1.	1	1204
2.	2	1186

2 rows in set. Elapsed: 0.032 sec. Processed 1.04 million rows, 3.18 MB (33.00 million rows/s., 101.01 MB/s.)
Peak memory usage: 1.94 MiB.

```
testPSQS01 :) ALTER TABLE demo.sales
UPDATE quantity = 3
WHERE product_id = 'P-39' and quantity < 3;
```

```
ALTER TABLE demo.sales
    (UPDATE quantity = 3 WHERE (product_id = 'P-39') AND (quantity < 3))
```

Query id: 16120700-69aa-46d9-8fbf-1b7372bc2751

Ok.
0 rows in set. Elapsed: 0.030 sec.

```
testPSQS01 :) select quantity, count() from sales where product_id = 'P-39' and quantity < 3 group by quantity;
```

```
SELECT
    quantity,
    count()
FROM sales
WHERE (product_id = 'P-39') AND (quantity < 3)
GROUP BY quantity
```

Query id: d22d797c-8c29-4755-b928-5c8e8977694f

Ok.
0 rows in set. Elapsed: 0.028 sec. Processed 1.04 million rows, 3.18 MB (37.44 million rows/s., 114.59 MB/s.)


```
testPSQS01 :) alter table demo.sales add column is_discont Bool;
```

```
ALTER TABLE demo.sales  
  (ADD COLUMN `is_discont` Bool)
```

Query id: 5735374f-bb8e-4207-a3dd-30062da8ba27

Ok.

0 rows in set. Elapsed: 0.014 sec.

```
testPSQS01 :) select * from sales limti 5;
```

Syntax error: failed at position 27 (5):

```
select * from sales limti 5;
```

Expected one of: FINAL, SAMPLE, table, table function, subquery or list of joined tables, array, ANTI, ONLY, LEFT, RIGHT, FULL, CROSS, PASTE, JOIN, token, OpeningRoundBracket, PREWHERE, WHERE, GROUP BY, ORDER BY, LIMIT, UNION, EXCEPT, INTERSECT, INTO OUTFILE, FORMAT, ParallelWithClause, PARALLEL WITH, end of query

```
testPSQS01 :) select * from sales limit 5;
```

```
SELECT *  
FROM sales  
LIMIT 5
```

Query id: f0966050-4f17-4b6b-8798-3c05cb74b07f

	sale_id	sale_date_str	store_id	product_id	quantity	is_discont
1.	JX-245993	01-01-2020	ST-1	P-10	4	false
2.	AQ-57663	01-01-2020	ST-1	P-26	4	false
3.	NV-9592	01-01-2020	ST-1	P-35	7	false
4.	BX-44914	01-01-2020	ST-1	P-43	6	false
5.	JZ-23430	01-01-2020	ST-10	P-11	3	false

5 rows in set. Elapsed: 0.006 sec. Processed 17.72 thousand rows, 288.52 KB (2.15 million rows)

```
testPSQS01 :) alter table demo.sales  
delete where store_id = 'ST-39';
```

```
ALTER TABLE demo.sales  
  (DELETE WHERE store_id = 'ST-39')
```

```
Query id: 57e3ad39-a33f-48ff-8f2f-4781a5a921f0
```

```
ok.
```

```
0 rows in set. Elapsed: 0.009 sec.
```

```
testPSQS01 :) █
```

```
testPSQS01 :) ALTER TABLE demo.sales DROP PARTITION '202006';
```

```
ALTER TABLE demo.sales  
  (DROP PARTITION '202006')
```

```
Query id: 4268b911-3a4f-4463-8272-a6cb3622bdc4
```

```
Connecting to database demo at localhost:9000 as user default.  
Connected to ClickHouse server version 25.12.4.
```

```
Ok.
```

```
0 rows in set. Elapsed: 0.010 sec.
```

```
testPSQS01 :) SELECT
```


0 rows in set. Elapsed: 0.001 sec.

```
testPSQS01 :) ALTER TABLE demo.sales DETACH PARTITION '202112';
```

```
ALTER TABLE demo.sales  
  (DETACH PARTITION '202112')
```

Query id: ac92e84e-2399-4b95-bb6d-dbf2ee380145

Ok.

0 rows in set. Elapsed: 0.005 sec.

```
testPSQS01 :) SELECT  
  partition
```

```
testPSQS01 :) ALTER TABLE demo.sales ATTACH PARTITION '202112';
```

```
ALTER TABLE demo.sales  
  (ATTACH PARTITION '202112')
```

```
Query id: f140ed60-61f5-458d-8408-8a3e66a45839
```

```
Ok.
```

```
0 rows in set. Elapsed: 0.017 sec.
```

```
testPSQS01 :) SELECT  
  partition
```