1) Создание таблиц

```
CREATE TABLE events main
 event id UInt64,
 user id UInt32,
 event time DateTime,
 event type String,
 page_url String,
 country String
ENGINE = ReplacingMergeTree()
PARTITION BY toStartOfMinute(event time)
ORDER BY event id;
CREATE TABLE events archive
 event id UInt64,
 user id UInt32,
 event time DateTime,
 event type String,
 page url String,
 country String
ENGINE = ReplacingMergeTree()
PARTITION BY toStartOfMinute(event time)
ORDER BY event id;
```

## 2) Заполнение данными

```
Партиция 1: 2025-01-15 10:00:00

INSERT INTO events_main VALUES
(1, 101, '2025-01-15 10:00:15', 'page_view', '/home', 'USA'),
(2, 102, '2025-01-15 10:00:30', 'click', '/products', 'UK'),
(1, 101, '2025-01-15 10:00:45', 'page_view', '/home', 'USA'); -- дубликат

-- Партиция 2: 2025-01-15 10:01:00

INSERT INTO events_main VALUES
(3, 103, '2025-01-15 10:01:10', 'purchase', '/checkout', 'Germany'),
(4, 104, '2025-01-15 10:01:25', 'page_view', '/about', 'France'),
(3, 103, '2025-01-15 10:01:40', 'purchase', '/checkout', 'Germany'); -- дубликат

-- Партиция 3: 2025-01-15 10:02:00

INSERT INTO events_main VALUES
(5, 105, '2025-01-15 10:02:05', 'login', '/login', 'Spain'),
(6, 106, '2025-01-15 10:02:20', 'logout', 'logout', 'Italy'),
(5, 105, '2025-01-15 10:02:35', 'login', '/login', 'Spain'); -- дубликат
```

## Подсчет дубликатов

SELECT event\_id, count(\*) as duplicates\_count FROM events\_main GROUP BY event\_id ORDER BY event\_id;

0	≡ event_id     ▼	☐ duplicates_count ▼
1	1	1
2	2	1
3	3	1
4	4	1
5	5	1
6	6	1

## 3) Перенос партиций

-- Просмотр существующих партиций

SELECT partition, name, rows

**FROM** system.parts

WHERE table = 'events\_main' AND active

ORDER BY partition;

-- Копирование первой партиции в архивную таблицу

**ALTER TABLE** events archive

ATTACH PARTITION '2025-01-15 10:00:00'

FROM events\_main;

-- Удаление первой партиции из основной таблицы

ALTER TABLE events main

**DROP PARTITION** '2025-01-15 10:00:00';

-- Копирование второй партиции в архивную таблицу

**ALTER TABLE** events archive

ATTACH PARTITION '2025-01-15 10:01:00'

**FROM** events\_main;

-- Удаление второй партиции из основной таблицы

ALTER TABLE events\_main

**DROP PARTITION** '2025-01-15 10:01:00';

0	A-Z partition 🔻	A-Z name ▼	□ rows ▼
1	2025-01-15 10:00:00	1736935200_1_1_0	2
2	2025-01-15 10:01:00	1736935260_2_2_0	2
3	2025-01-15 10:02:00	1736935320_3_3_0	2

## 4) Проверочные запросы

SELECT partition, table

FROM system.parts

WHERE database = currentDatabase()

AND (table = 'events\_main' OR table = 'events\_archive')

GROUP BY partition, table

ORDER BY table, partition;

0	A-Z partition 🔻	A-Z table ▼
1	2025-01-15 10:00:00	events_archive
2	2025-01-15 10:01:00	events_archive
3	2025-01-15 10:02:00	events_main

SELECT 'events\_main' AS table\_name, COUNT(\*) AS record\_count FROM events\_main

**UNION ALL** 

SELECT 'events\_archive' AS table\_name, COUNT(\*) AS record\_count

**FROM** events\_archive;

