1) Проектирование таблиц

```
CREATE TABLE marketplace.product_events (
   product_id UUID,
   event_time TIMESTAMP,
   user_id UUID,
   event_type TEXT,
   PRIMARY KEY (product_id, event_time)
) WITH CLUSTERING ORDER BY (event_time DESC)
 AND default_time_to_live = 2592000;
CREATE TABLE marketplace.user_events (
   user_id UUID,
   event_time TIMESTAMP,
   product_id UUID,
   event_type TEXT,
   PRIMARY KEY (user_id, event_time)
) WITH CLUSTERING ORDER BY (event_time DESC)
 AND default_time_to_live = 2592000;
CREATE TABLE marketplace.product_events_by_type (
   product_id UUID,
   event_type TEXT,
   event_time TIMESTAMP,
   user_id UUID,
   PRIMARY KEY ((product_id, event_type),
event_time)
) WITH CLUSTERING ORDER BY (event_time DESC)
 AND default_time_to_live = 2592000;
```

2) Заполнение данными

```
INSERT INTO marketplace.product_events (product_id,
event_time, user_id, event_type)
'2025-06-01 11:45:12.123456',
22222222-222-2222-2222-222222222222, 'view');
INSERT INTO marketplace.user_events (user_id,
event_time, product_id, event_type)
'2025-06-01 11:45:12.123456',
11111111-1111-1111-1111-1111111111111, 'view');
INSERT INTO marketplace.product_events_by_type
(product_id, event_type, event_time, user_id)
22222222-2222-2222-2222-222222222222);
INSERT INTO marketplace.product_events (product_id,
event_time, user_id, event_type)
'2025-06-01 10:15:00.000000',
'add_to_cart');
INSERT INTO marketplace.user_events (user_id,
event_time, product_id, event_type)
'2025-06-01 10:15:00.000000',
'add_to_cart');
```

3) 10 последних действий по определенному товару

4) 10 последних действий по определенному клиенту

5) Количество просмотров определенного товара в промежуток времени с "2025-06-01 10:00:00" по "2025-06-01 13:00:00"

```
SELECT count(*) AS views_count
FROM marketplace.product_events_by_type
WHERE product_id =
11111111-1111-1111-1111-1111111111
AND event_type = 'view'
AND event_time >= '2025-06-01 10:00:00'
AND event_time <= '2025-06-01 13:00:00';</pre>
```

```
views_count
-----1
```