## Задача 2.1

```
SELECT event_name, COUNT(event_name) AS number_of
FROM(
     SELECT event_name, min(event_timestamp), user_pseudo_id
     FROM(
          SELECT event_name, event_timestamp, user_pseudo_id FROM test_table_001 WHERE event_name in
          ('gdpr_group_1', 'gdpr_group_2', 'gdpr_group_3', 'gdpr_group_4', 'gdpr_group_5', 'gdpr_group_6')
          SELECT event_name, (event_timestamp), user_pseudo_id FROM test_table_002 WHERE event_name
          in ('gdpr_group_1', 'gdpr_group_2', 'gdpr_group_3', 'gdpr_group_4', 'gdpr_group_5', 'gdpr_group_6')
          UNION ALL
          SELECT event_name, (event_timestamp), user_pseudo_id FROM test_table_003 WHERE event_name
          in ('gdpr_group_1', 'gdpr_group_2', 'gdpr_group_3', 'gdpr_group_4', 'gdpr_group_5', 'gdpr_group_6')
          UNION ALL
          SELECT event_name, (event_timestamp), user_pseudo_id FROM test_table_004 WHERE event_name
          in ('gdpr_group_1', 'gdpr_group_2', 'gdpr_group_3', 'gdpr_group_4', 'gdpr_group_5', 'gdpr_group_6')
          UNION ALL
          SELECT event name, (event timestamp), user pseudo id FROM test table 005 WHERE event name
          in ('gdpr_group_1', 'gdpr_group_2', 'gdpr_group_3', 'gdpr_group_4', 'gdpr_group_5', 'gdpr_group_6')
          SELECT event name, (event timestamp), user pseudo id FROM test table 006 WHERE event name
         in ('gdpr_group_1', 'gdpr_group_2', 'gdpr_group_3', 'gdpr_group_4', 'gdpr_group_5', 'gdpr_group_6')
     GROUP BY user_pseudo_id
GROUP BY event_name
```

## Результат:

	event_name	number_of
1	gdpr_group_1	18665
2	gdpr_group_2	18485
3	gdpr_group_3	18604
4	gdpr_group_4	18678
5	gdpr_group_5	18852
	gdpr_group_6	

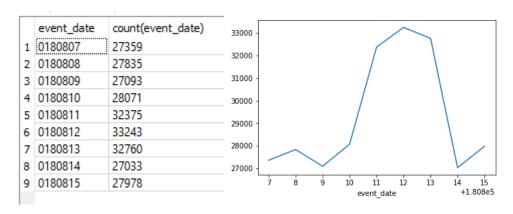
## Задача 2.2

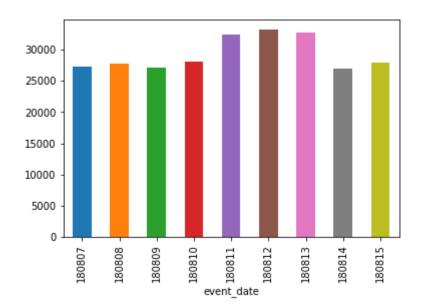
```
SELECT event_date,
       COUNT(DISTINCT user_pseudo_id),
       COUNT(user_pseudo_id),
       COUNT(user_pseudo_id) / COUNT(DISTINCT user_pseudo_id) AS mean
FROM (
     SELECT p0.user pseudo id,
           p0.event date,
           p0.event_timestamp,
           p0.event name,
           p1.event name,
           p1.event_timestamp,
           (CAST(p1.event_timestamp AS int) - CAST(p0.event_timestamp AS int))/1000000 AS delta
     FROM (
           SELECT *
           FROM (
                 SELECT event_date, event_timestamp, event_name, user_pseudo_id FROM test_table_001
                 UNION ALL
                 SELECT event date, event timestamp, event name, user pseudo id FROM test table 002
                 UNION ALL
                 SELECT event date, event timestamp, event name, user pseudo id FROM test table 003
                 UNION ALL
                 SELECT event date, event timestamp, event name, user pseudo id FROM test table 004
                 UNION ALL
                 SELECT event_date, event_timestamp, event_name, user_pseudo_id FROM test_table_005
                 UNION ALL
                 SELECT event_date, event_timestamp, event_name, user_pseudo_id FROM test_table_006
     ) AS p0
JOIN (
     SELECT *
     FROM (
           SELECT event date, event timestamp, event name, user pseudo id FROM test table 001
           UNION ALL
           SELECT event_date, event_timestamp, event_name, user_pseudo_id FROM test_table_002
           UNION ALL
           SELECT event date, event timestamp, event name, user pseudo id FROM test table 003
           UNION ALL
           SELECT event_date, event_timestamp, event_name, user_pseudo_id FROM test_table_004
           UNION ALL
           SELECT event date, event timestamp, event name, user pseudo id FROM test table 005
           UNION ALL
           SELECT event date, event timestamp, event name, user pseudo id FROM test table 006
     )
) AS p1 on p0.user_pseudo_id=p1.user_pseudo_id
WHERE p0.event name='first open' AND
     p1.event name='video show' AND
     (CAST(p1.event_timestamp AS int) - CAST(p0.event_timestamp AS int))/1000000 < 3600 AND
     (CAST(p1.event timestamp AS int) - CAST(p0.event timestamp AS int))/1000000 > 0
)
GROUP BY event_date
```

## Результат:

\*\*\*вопрос поставлен неоднозначно (не указано, какое значение необходимо найти сумма\среднее\медиана)

1) Сумма событий по дням (lineplot приувеличивает визуально реальную разницу)





2) Среднее\Медианное значение событий по дням недели

