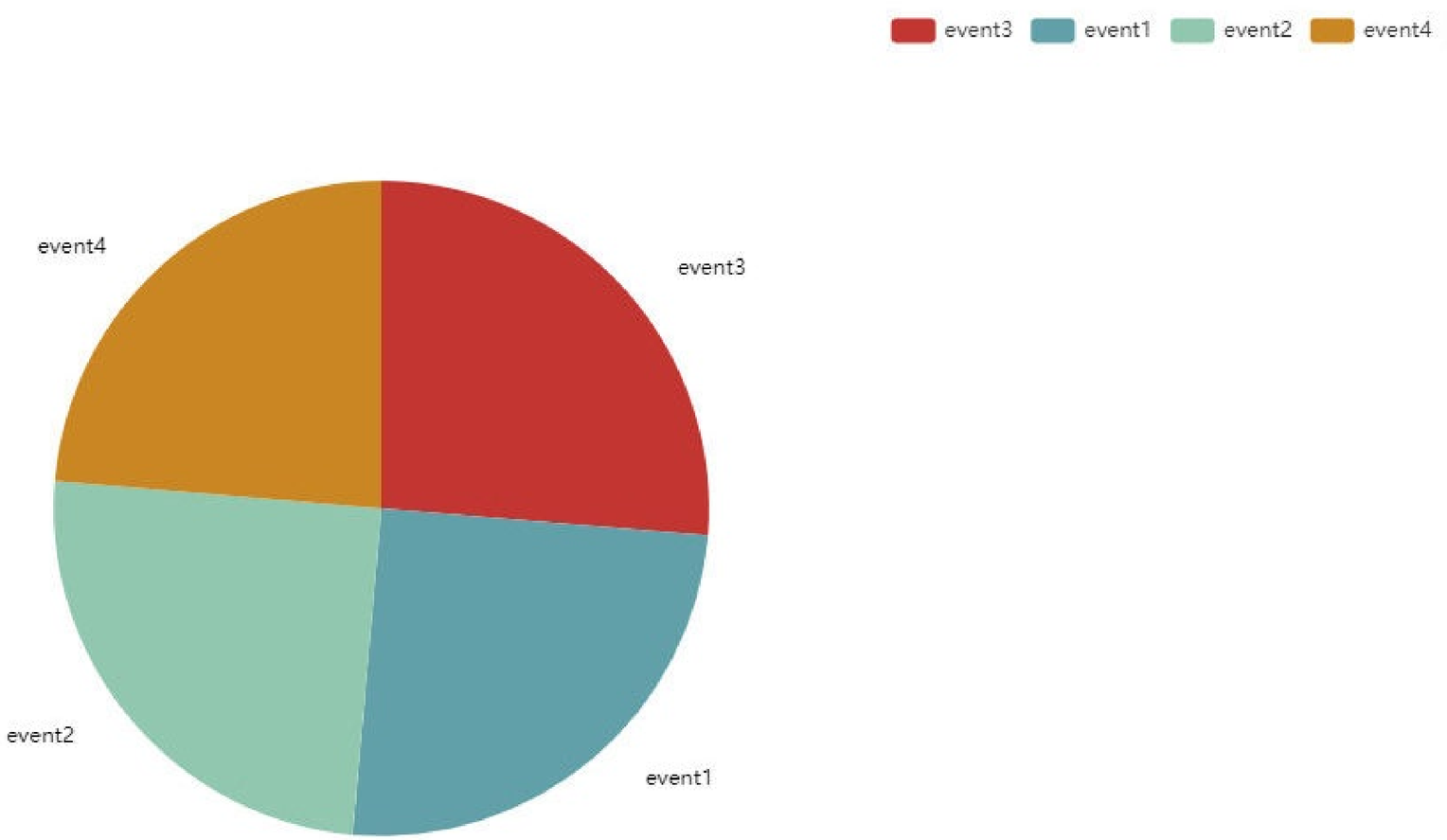
console.sql

```sql
---------------------- dz2 -------------------------

-- zadatak 1
select "Name", count(*) from "Event" group by "Name";

```

zad1



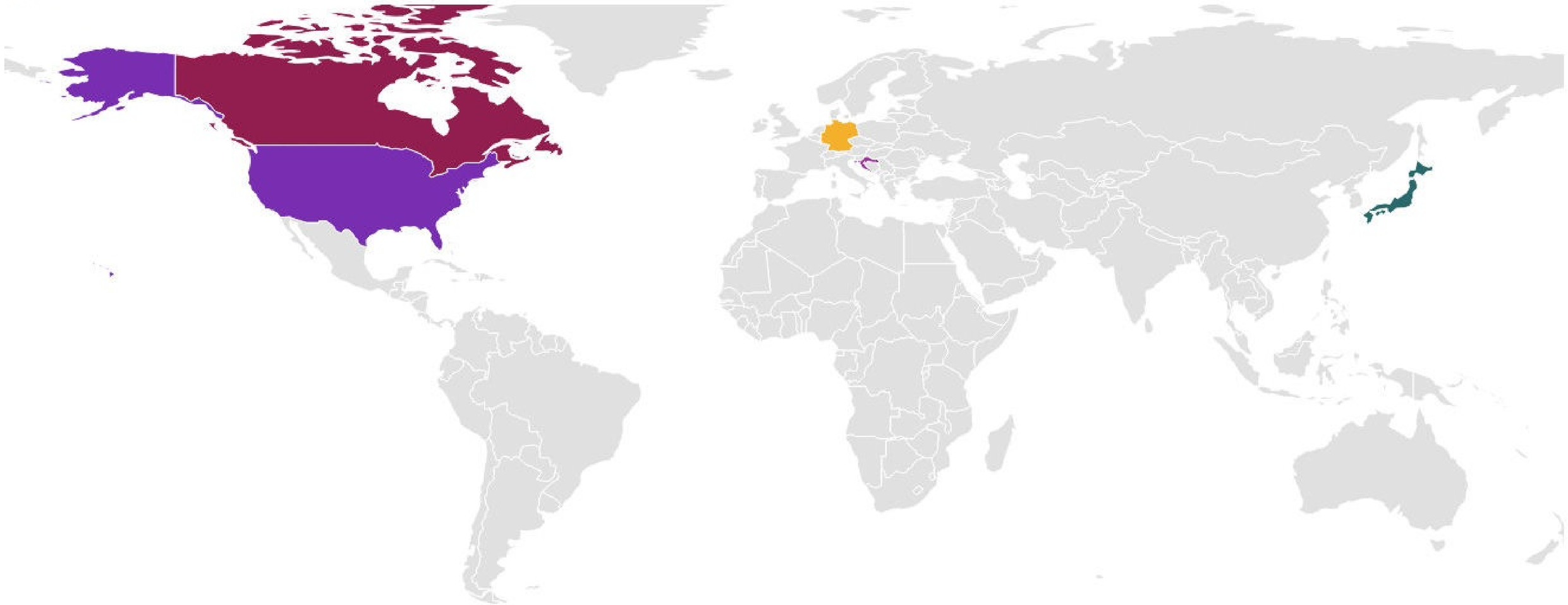
```sql
-- zadatak 2
select *, "EndTimestamp" - "StartTimestamp" as duration
from "Event"
where "EndTimestamp" - "StartTimestamp" > INTERVAL '40 seconds';

```

zad2

Id	FileId	Name	StartTimestamp	EndTimestamp	CountryCode	duration
992dc27b-bd3c-4717-80c0-e079d75e53d4	ee774fab-8abd-431d-af84-8944dc99d60e	event1	2024-01-01	2024-01-01	JP	0 days 00:01:10.600000
0634d801-5bb7-4e2b-b7cd-9536afb08cfb	ee774fab-8abd-431d-af84-8944dc99d60e	event1	2024-01-01	2024-01-01	JP	0 days 00:02:34.600000
4976d083-8f4d-4c8d-9fee-b1c541e6185a	ee774fab-8abd-431d-af84-8944dc99d60e	event1	2024-01-01	2024-01-01	JP	0 days 00:01:34
b0bce822-276b-4c97-b06e-8990176b7862	ee774fab-8abd-431d-af84-8944dc99d60e	event1	2024-01-01	2024-01-01	JP	0 days 00:01:01.800000
a3066d12-6ed3-4a15-bd12-f7de63f9bf32	ee774fab-8abd-431d-af84-8944dc99d60e	event2	2024-01-01	2024-01-01	JP	0 days 00:00:51.800000
98ba0896-7668-49b8-af49-a67af2fd6c29	ee774fab-8abd-431d-af84-8944dc99d60e	event2	2024-01-01	2024-01-01	JP	0 days 00:01:48.600000
a33b831a-3a4c-49f9-b166-ec863035a205	ee774fab-8abd-431d-af84-8944dc99d60e	event3	2024-01-01	2024-01-01	JP	0 days 00:01:25.550000
95a75c2a-fdce-40d8-b457-735154ded348	ee774fab-8abd-431d-af84-8944dc99d60e	event1	2024-01-01	2024-01-01	JP	0 days 00:00:56.200000
660752ee-84e1-467a-ba1d-24b483dd57b6	ee774fab-8abd-431d-af84-8944dc99d60e	event3	2024-01-01	2024-01-01	JP	0 days 00:01:42.400000
cd9c0974-6ce0-4b0c-a579-55ed15ea6191	ee774fab-8abd-431d-af84-8944dc99d60e	event3	2024-01-01	2024-01-01	JP	0 days 00:01:51.400000
8584099c-5330-4620-bc45-0b767f3e1773	ee774fab-8abd-431d-af84-8944dc99d60e	event4	2024-01-01	2024-01-01	JP	0 days 00:03:00
b85e2c34-a5f2-446d-9b9b-c9d93bd1be1d	ee774fab-8abd-431d-af84-8944dc99d60e	event2	2024-01-01	2024-01-01	JP	0 days 00:01:27.200000
7af3a2df-9575-4ff1-8f69-a2122e3e621d	ae4fa373-516c-41be-95ae-a67d3b14da63	event3	2024-01-01	2024-01-01	DE	0 days 00:01:48.850000
2dcc5845-aace-4ebd-a23c-4e3cfdf92fa8	ae4fa373-516c-41be-95ae-a67d3b14da63	event4	2024-01-01	2024-01-01	DE	0 days 00:01:05.400000
7ad5d490-87dc-44f0-90ba-a261107e5cd1	ae4fa373-516c-41be-95ae-a67d3b14da63	event1	2024-01-01	2024-01-01	DE	0 days 00:00:43.200000
16ca75f4-32cb-4b8f-9c84-8208d7bbab5a	ae4fa373-516c-41be-95ae-a67d3b14da63	event1	2024-01-01	2024-01-01	DE	0 days 00:01:58.600000
bc903c08-091e-415b-91c4-e6ced4a7d6b3	ae4fa373-516c-41be-95ae-a67d3b14da63	event2	2024-01-01	2024-01-01	DE	0 days 00:01:25
f71857a1-96c7-40c3-b4e0-84f3441473a8	ae4fa373-516c-41be-95ae-a67d3b14da63	event2	2024-01-01	2024-01-01	DE	0 days 00:01:04.200000

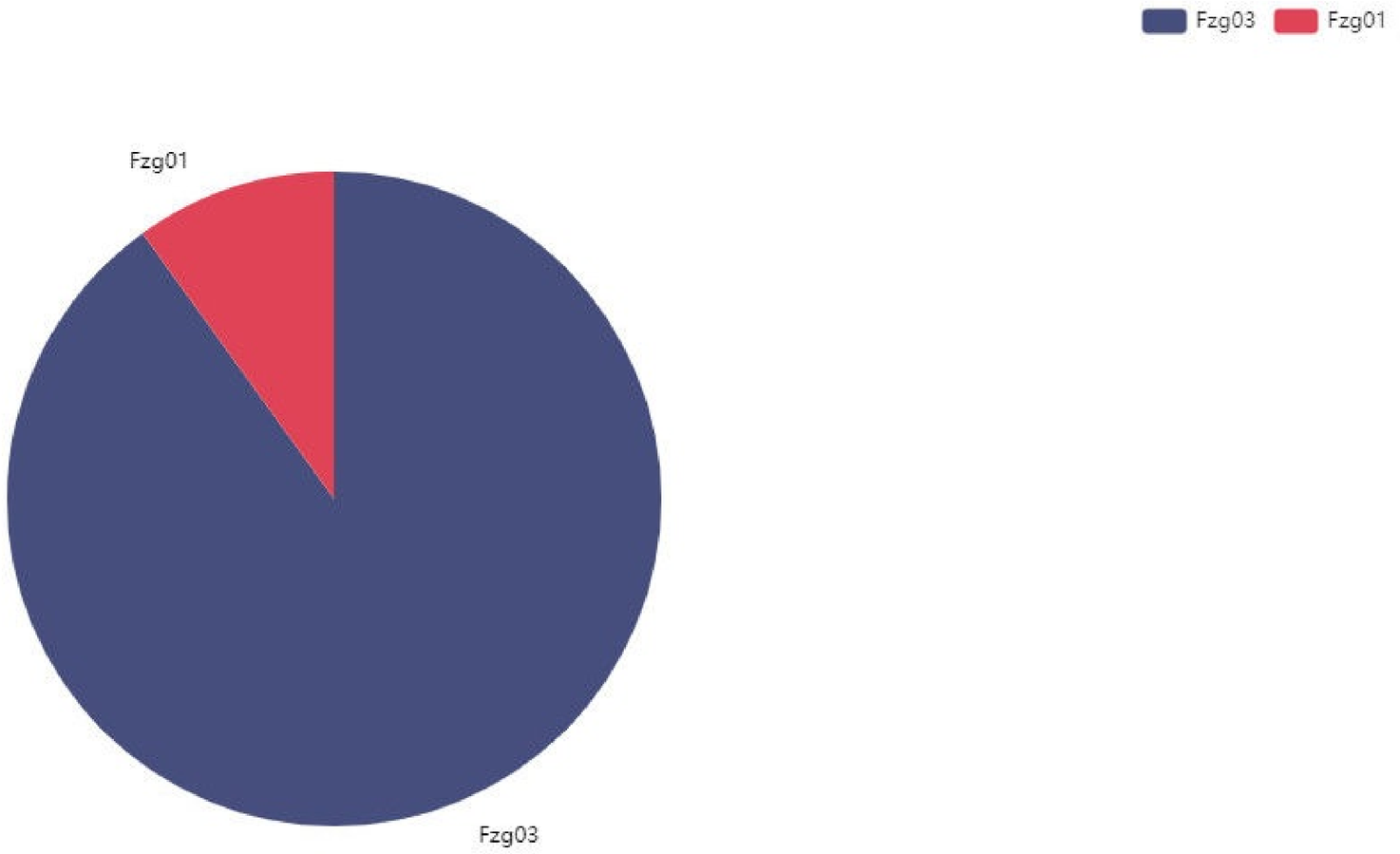
```
11  -- zadatak 3
12  select "CountryCode", count(*) from "Event" group by "CountryCode";
13
```

zad3



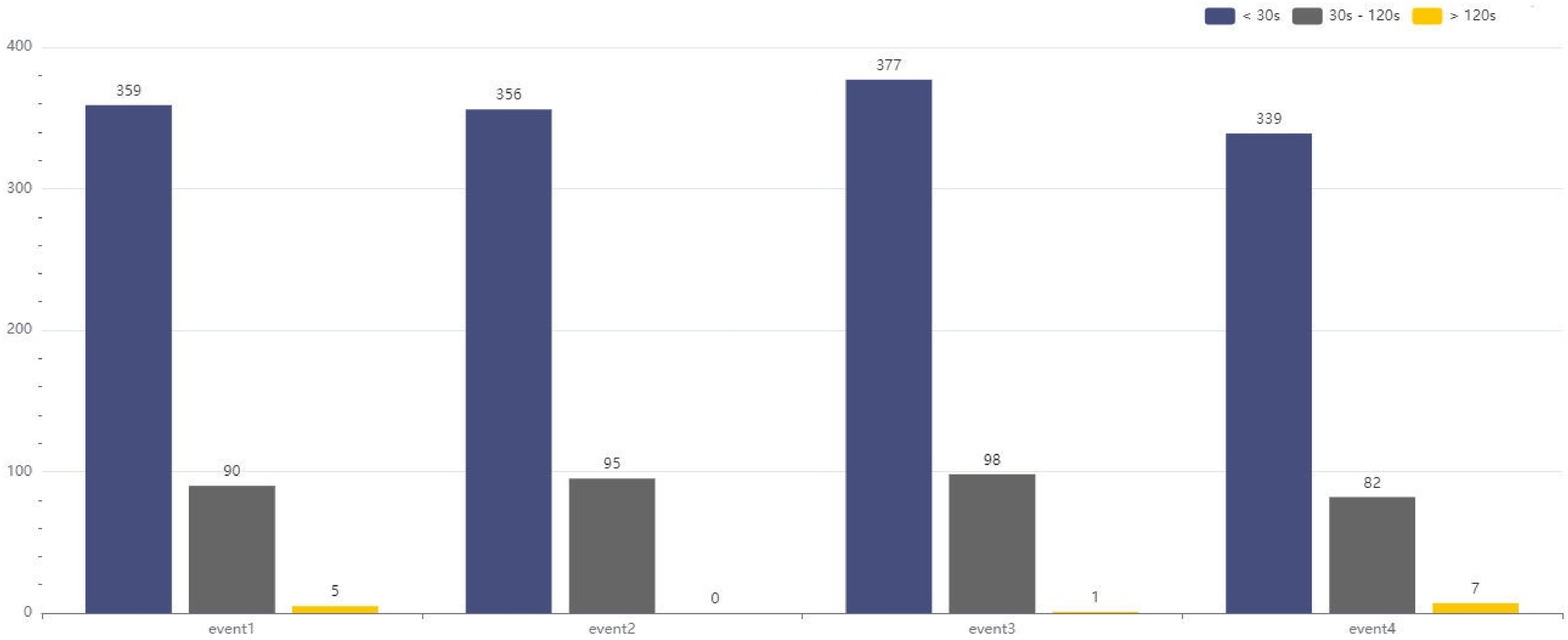
```sql
-- zadatak 4
select f."VehicleId", count(e."Id")
from "File" f inner join "Event" e on f."Id" = e."FileId"
group by f."VehicleId";

```

zad4



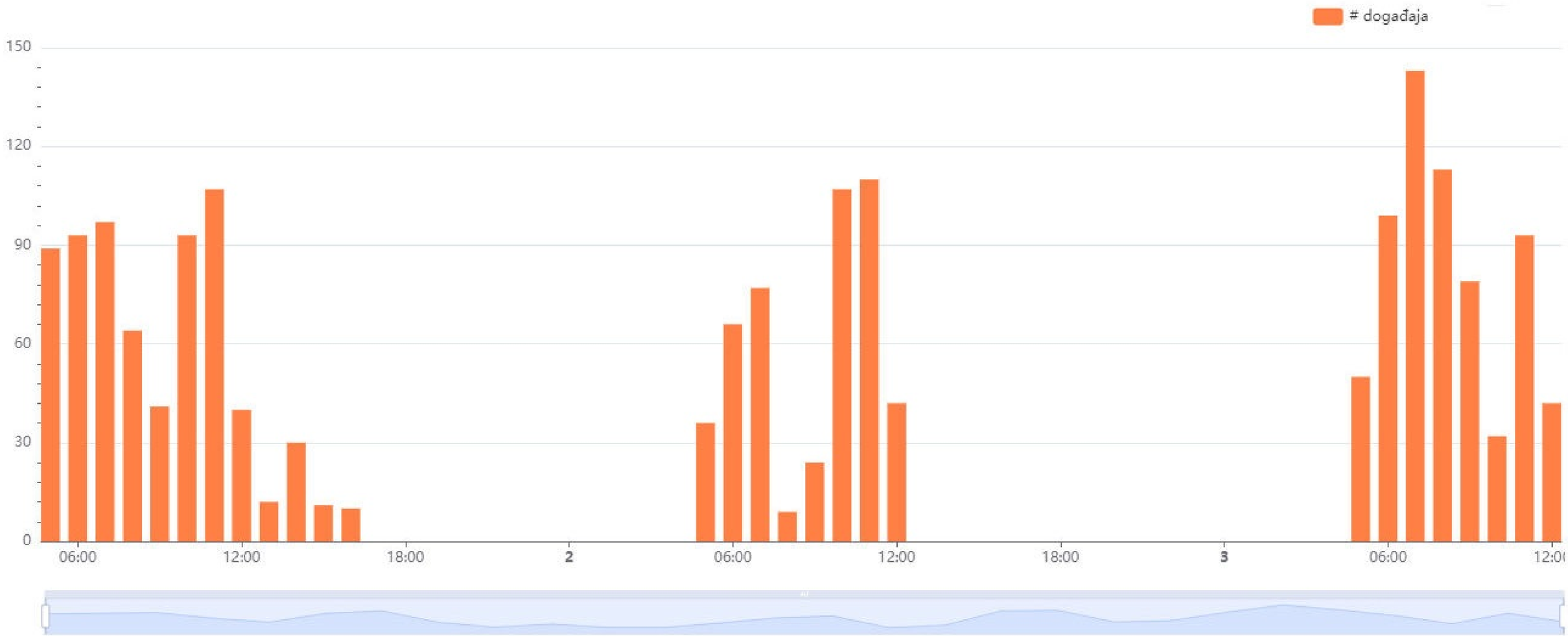
```sql
-- zadatak 5
select "Name",
count(*) filter (
    where "EndTimestamp" - "StartTimestamp" < interval '30 seconds'
    ) as "< 30s",
count(*) filter (
    where "EndTimestamp" - "StartTimestamp" >= interval '30 seconds' and
          "EndTimestamp" - "StartTimestamp" <= interval '120 seconds'
    ) as "30s - 120s",
count(*) filter (
    where "EndTimestamp" - "StartTimestamp" > interval '120 seconds'
    ) as "> 120s"
from "Event" group by "Name" order by "Name";

```

zad5


< 30s
30s - 120s
> 120s
400
300
200
100
0
359
90
5
356
95
0
377
98
1
339
82
7
event1
event2
event3
event4

```
33  -- zadatak 6
34  select public.time_bucket('1 hour', "StartTimestamp") as start,
35         count("Id")
36  from "Event"
37  group by start order by start;
38
```

zad6


događaja
150
120
90
60
30
0
06:00
12:00
18:00
2
06:00
12:00
18:00
3
06:00
12:0

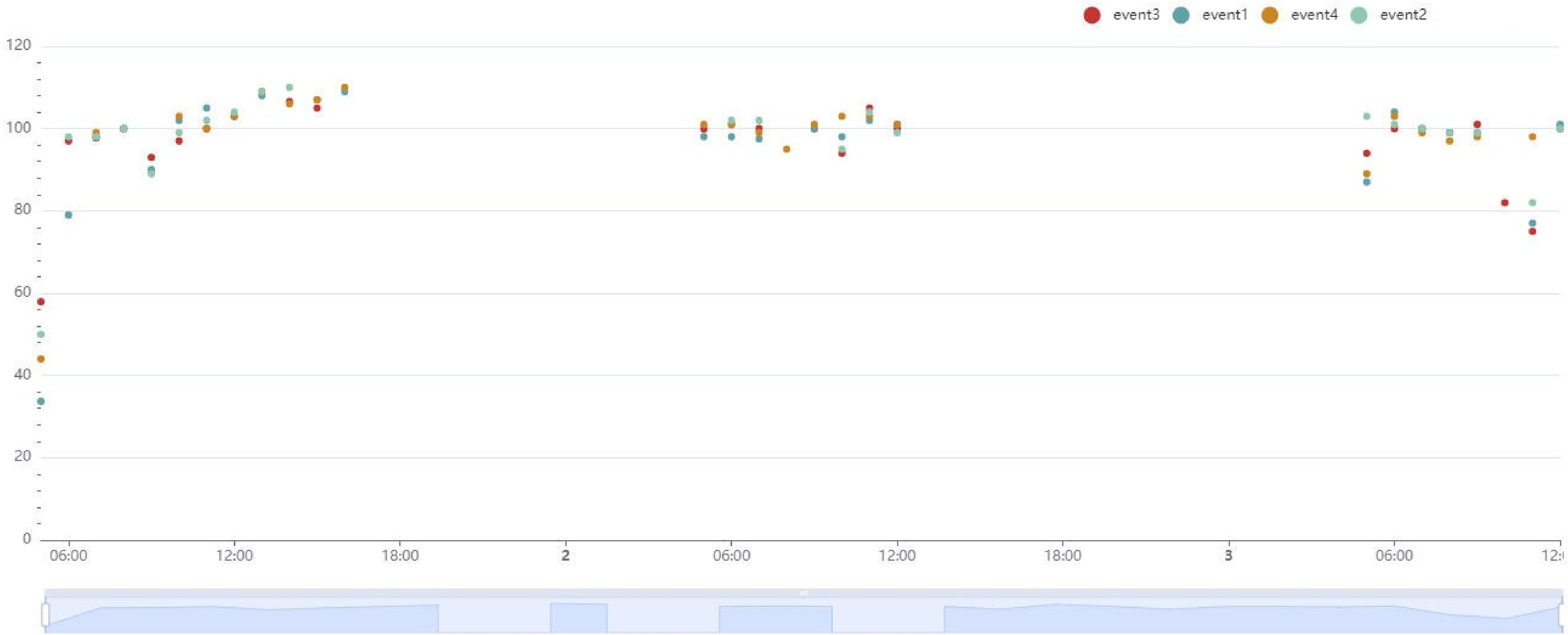
```sql
-- zadatak 7
select e.*
       --, a."Name", a."Type", a."Value"
from "Event" e inner join "Aggregation" a on e."Id" = a."EventId"
where a."Name" = 'SPEED' and a."Type" = 'max'
    and "Value" >= 50 and "Value" <= 60
order by "Value";

```

zad7

Id	FileId	Name	StartTimestamp	EndTimestamp	CountryCode
d202e6c1-4e25-4959-9b29-277f3f21e2a7	95e0090d-3080-44a8-b07c-52c4f777799b	event4	2024-01-03	2024-01-03	US
08d3660f-7a99-49ba-8c44-7a8f249eefca	28b05c88-f8a1-45f2-9a1b-f1743406ca6e	event3	2024-01-01	2024-01-01	DE
8c38a675-1414-48c3-af0b-6458d3bb6ef2	d7343dc5-1941-451d-97a7-0ba97e706273	event2	2024-01-03	2024-01-03	CA
c19c18ba-76c3-48b3-ae2a-c347161e0a16	ee774fab-8abd-431d-af84-8944dc99d60e	event3	2024-01-01	2024-01-01	JP
07567c4a-3708-426c-a167-2a743ef0bac1	28b05c88-f8a1-45f2-9a1b-f1743406ca6e	event3	2024-01-01	2024-01-01	DE
60d8e858-6b15-4412-a382-6a70f81ab502	ee774fab-8abd-431d-af84-8944dc99d60e	event1	2024-01-01	2024-01-01	JP
7753c940-3290-451c-a458-626ccffe3bad	26adf3e4-84ae-4204-882a-ae0a85c6b906	event1	2024-01-02	2024-01-02	JP
80546e1d-585f-4e52-8f4e-ffd9825ccd7d	d7343dc5-1941-451d-97a7-0ba97e706273	event3	2024-01-03	2024-01-03	CA
4042322e-c9b9-402a-8d84-221555b08fab	95e0090d-3080-44a8-b07c-52c4f777799b	event3	2024-01-03	2024-01-03	US
e65be82e-7b60-4758-b40f-336f121154c5	d7343dc5-1941-451d-97a7-0ba97e706273	event1	2024-01-03	2024-01-03	CA
544b3f73-a3de-4b67-918b-324447465076	28b05c88-f8a1-45f2-9a1b-f1743406ca6e	event3	2024-01-01	2024-01-01	DE
49866e61-af09-4292-8762-5d383aded647	d7343dc5-1941-451d-97a7-0ba97e706273	event1	2024-01-03	2024-01-03	CA
3c132142-7a5f-47d9-bafc-d284400ee77f	1de947a3-b8be-4c8b-ac42-41709dde8524	event4	2024-01-01	2024-01-01	CA
d6cc4df2-50d7-4b1b-a68f-e724a3fc303d	1de947a3-b8be-4c8b-ac42-41709dde8524	event2	2024-01-01	2024-01-01	CA
eb3838db-5f0a-484f-aadb-6a1e2555eea7	28b05c88-f8a1-45f2-9a1b-f1743406ca6e	event2	2024-01-01	2024-01-01	DE
760954d4-ceda-4b15-a3c8-e299e06713d7	d7343dc5-1941-451d-97a7-0ba97e706273	event4	2024-01-03	2024-01-03	CA
3c15928e-a2c2-48a0-bb11-351892acef8e	95e0090d-3080-44a8-b07c-52c4f777799b	event4	2024-01-03	2024-01-03	US
e3c09b3b-6b5f-410b-b19a-40d624221d1b	4bcb4dd1-0dc3-4e34-b515-2516deae2514	event4	2024-01-02	2024-01-02	HR

```sql
-- zadatak 8
with t1 as (
select a1."EventId", a1."Value" as scatterVal,
       a2."Name", a2."Type", a2."Value" as controlVal
from "Aggregation" as a1 inner join "Aggregation" as a2 on a1."EventId" = a2."EventId"
where a1."Name" = 'T_OIL' and a1."Type" = 'min' and
      a2."Name" = 'SPEED' and a2."Type" = 'max' and
      a2."Value" >= 50 and a2."Value" <= 60)
select time_bucket('1 hour', e."StartTimestamp"), e."Name", t1.scatterVal
    -- , controlVal
from "Event" as e inner join t1 on t1."EventId" = e."Id";

```

zad8


event3
event1
event4
event2
120
100
80
60
40
20
0
06:00
12:00
18:00
2
06:00
12:00
18:00
3
06:00

```
59    -- zadatak 9
60    select chunk_name, pg_size_pretty(table_bytes)
61    from public.chunks_detailed_size('"Event"')
62    order by table_bytes;
```

zad9

chunk_name	pg_size_pretty
_hyper_15_23_chunk	72 kB
_hyper_15_22_chunk	88 kB
_hyper_15_24_chunk	88 kB