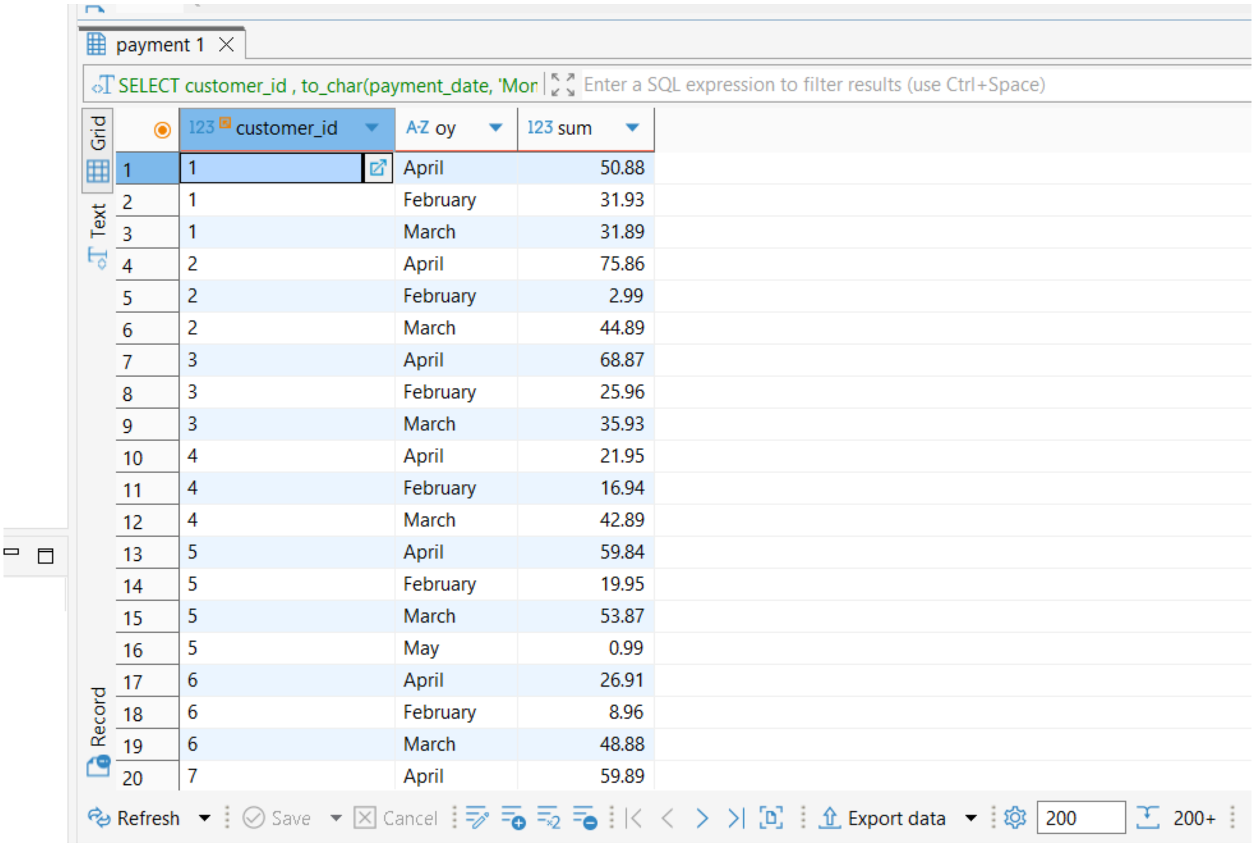
SQL Grouping date

```
1.SELECT
        customer_id ,
        to_char(payment_date, 'Month') AS OY,
        SUM(amount)
FROM payment
GROUP BY OY , customer_id
ORDER BY customer_id
```

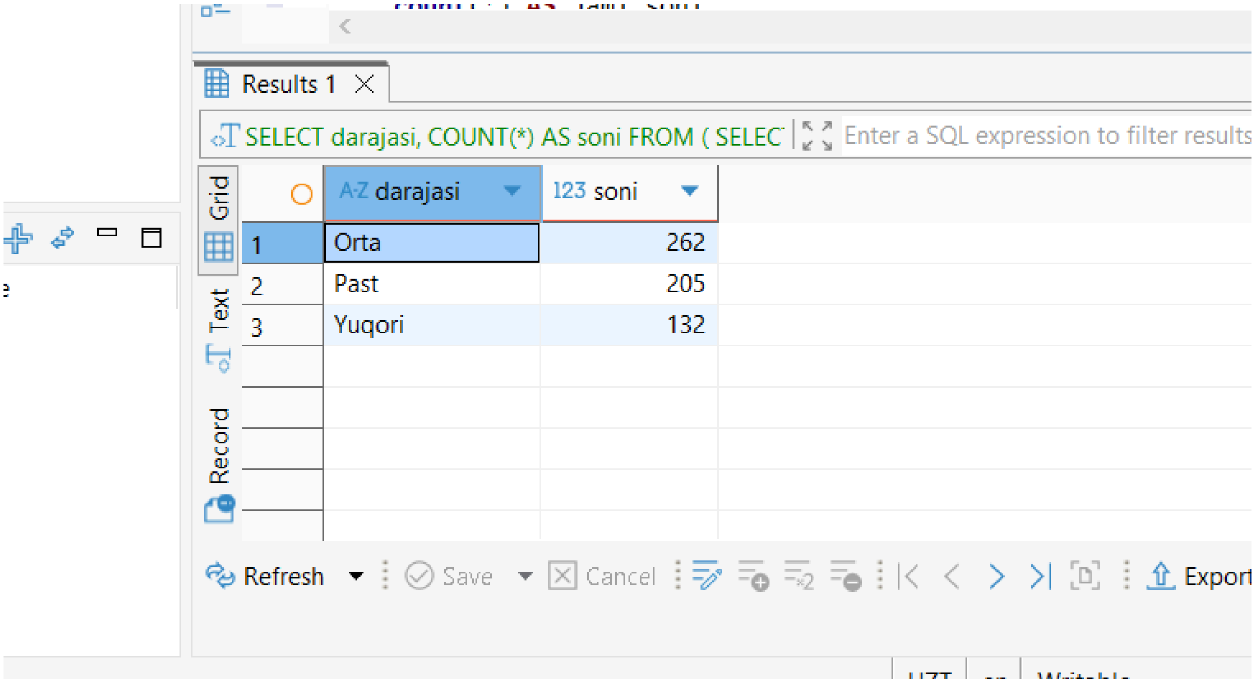
Izzoh: mijozlarning har oyda qancha umumiy summa ishlatganini chiqaradigan query


payment 1
SELECT customer_id , to_char(payment_date, 'Mor
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
Refresh
Save
Cancel
Export data
200
200+

	customer_id	oy	sum
1	1	April	50.88
2	1	February	31.93
3	1	March	31.89
4	2	April	75.86
5	2	February	2.99
6	2	March	44.89
7	3	April	68.87
8	3	February	25.96
9	3	March	35.93
10	4	April	21.95
11	4	February	16.94
12	4	March	42.89
13	5	April	59.84
14	5	February	19.95
15	5	March	53.87
16	5	May	0.99
17	6	April	26.91
18	6	February	8.96
19	6	March	48.88
20	7	April	59.89

```
2.SELECT
        darajasi,
        COUNT(*) AS soni
FROM (
        SELECT
                customer_id,
                SUM(amount) AS jami_summa,
                CASE
                        WHEN SUM(amount) < 90 THEN 'Past'
                        WHEN SUM(amount) BETWEEN 90 AND 120 THEN 'Orta'
                        ELSE 'Yuqori'
                END AS darajasi
        FROM payment
        GROUP BY customer_id
) AS mijoz_toifalari
GROUP BY darajasi
ORDER BY darajasi
```

Izoh: mijozning tolagan summasiga qarab uni guruhga ajratib keyin esa osha guruhda nechta customer borligini chiqaradigan query



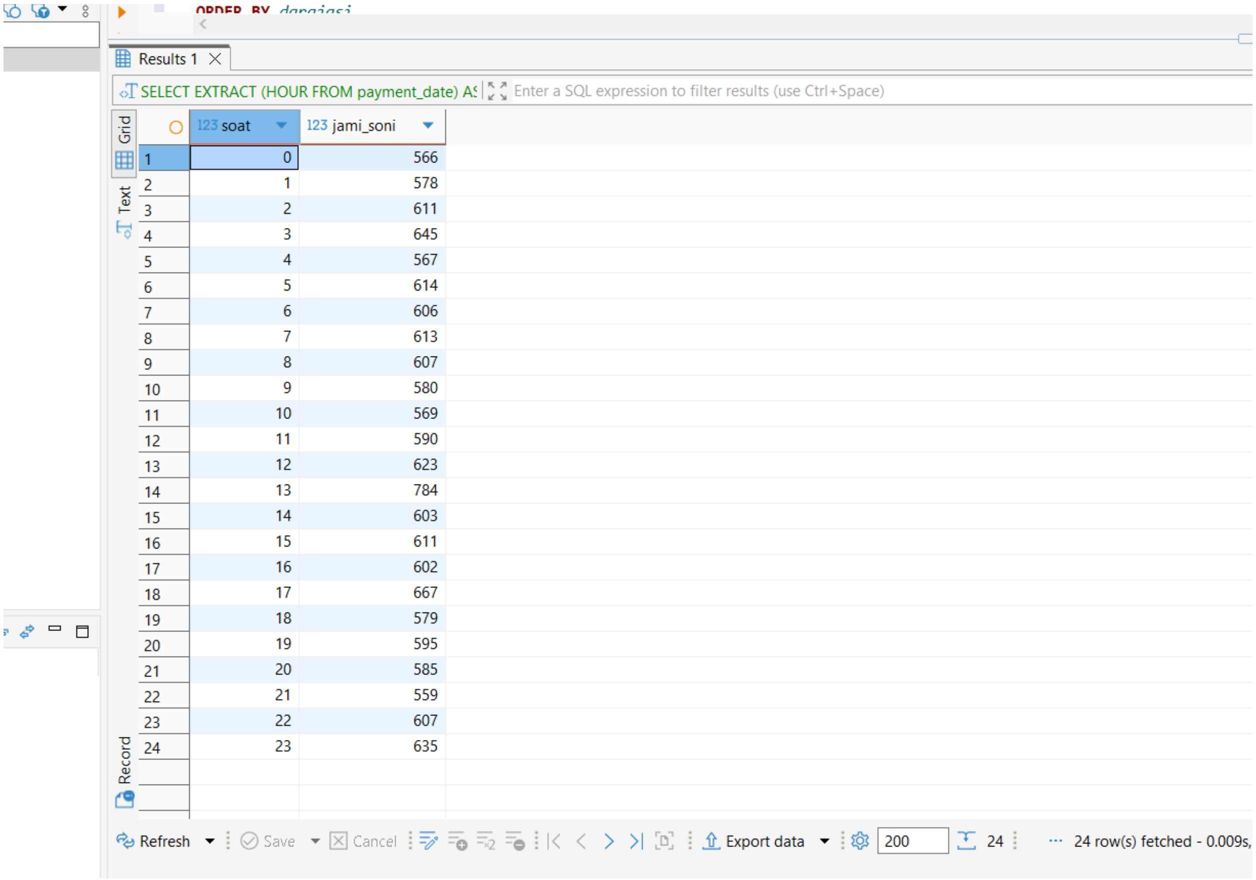
```
SELECT darajasi, COUNT(*) AS soni FROM ( SELEC
```

Enter a SQL expression to filter results

	darajasi	soni
1	Orta	262
2	Past	205
3	Yuqori	132

3.
```
SELECT
        EXTRACT (HOUR FROM payment_date) AS soat,
        count(*) AS jami_soni
FROM payment
GROUP BY soat
ORDER BY soat
```

Izoh: har soatda nechta mijoz ijaraga olganii chiqaradigan query



SELECT EXTRACT (HOUR FROM payment_date) AS

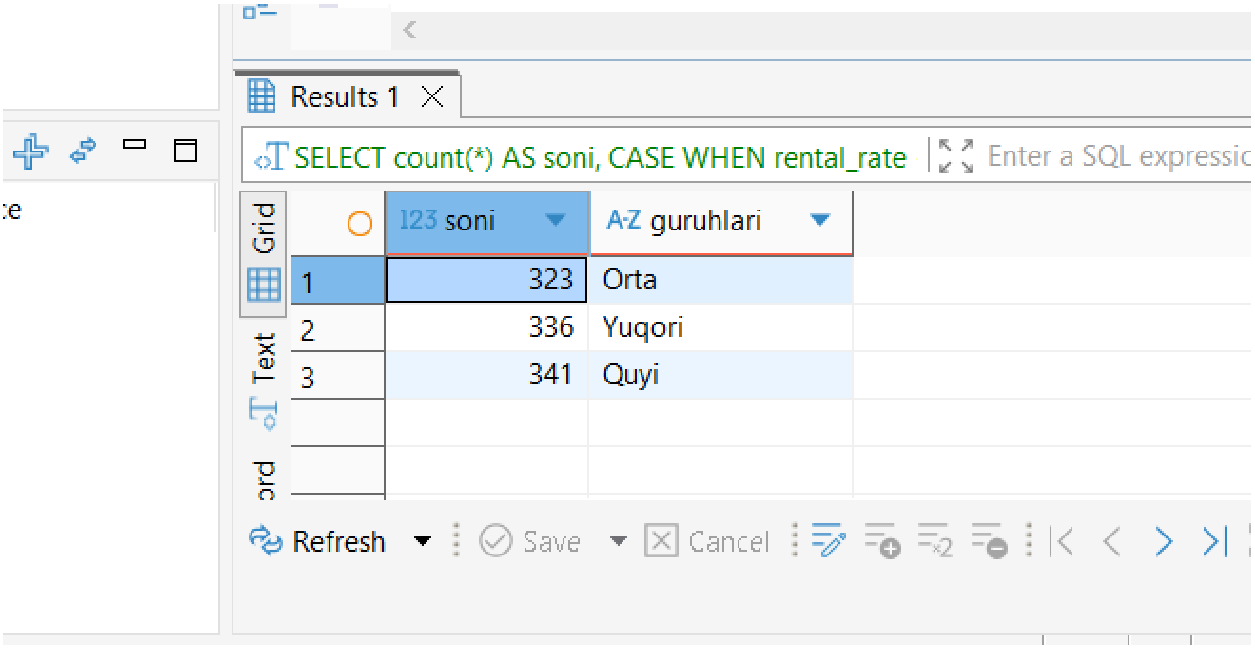
Enter a SQL expression to filter results (use Ctrl+Space)

	soat	jami_soni
1	0	566
2	1	578
3	2	611
4	3	645
5	4	567
6	5	614
7	6	606
8	7	613
9	8	607
10	9	580
11	10	569
12	11	590
13	12	623
14	13	784
15	14	603
16	15	611
17	16	602
18	17	667
19	18	579
20	19	595
21	20	585
22	21	559
23	22	607
24	23	635

24 row(s) fetched - 0.009s,

4.
```
SELECT
        count(*) AS soni,
        CASE
                WHEN rental_rate < 1.00 THEN 'Quyi'
                WHEN rental_rate BETWEEN 1.00 AND 2.99 THEN 'Orta'
                ELSE 'Yuqori'
        END AS guruhlari
FROM film
GROUP BY guruhlari
```

Izoh: ijaraga berilgan filmlarning ijara narxi boyicha guruhlarga ajratadigan query

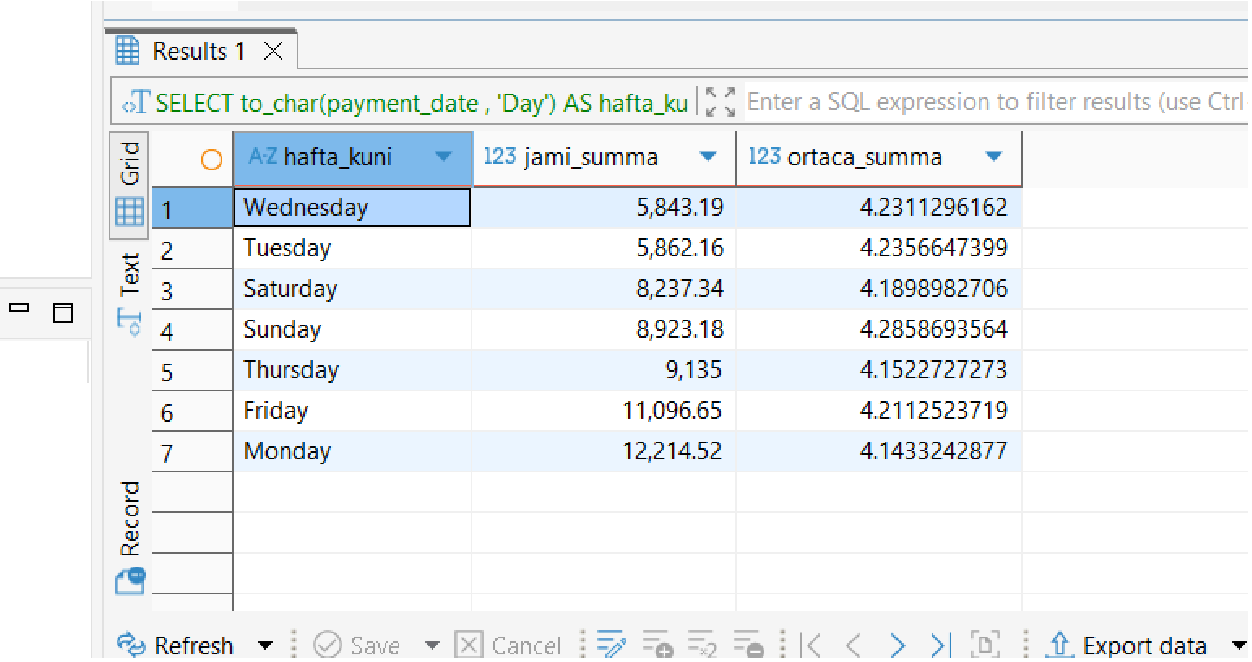


SELECT count(*) AS soni, CASE WHEN rental_rate

	soni	guruhlari
1	323	Orta
2	336	Yuqori
3	341	Quyi

5.
```
SELECT
	to_char(payment_date , 'Day') AS hafta_kuni,
	SUM(amount) AS jami_summa,
	AVG(amount) AS ortaca_summa
FROM payment
GROUP BY hafta_kuni
HAVING sum(amount) > 5000
ORDER BY jami_summa
```

Izoh: qaysi hafta kunida qancha savdo bolganini chiqaradigan query faqat 5000 dan balandlari uchun


Results 1
SELECT to_char(payment_date , 'Day') AS hafta_ku
Enter a SQL expression to filter results (use Ctrl
Grid
Text
Record
Refresh
Save
Cancel
Export data

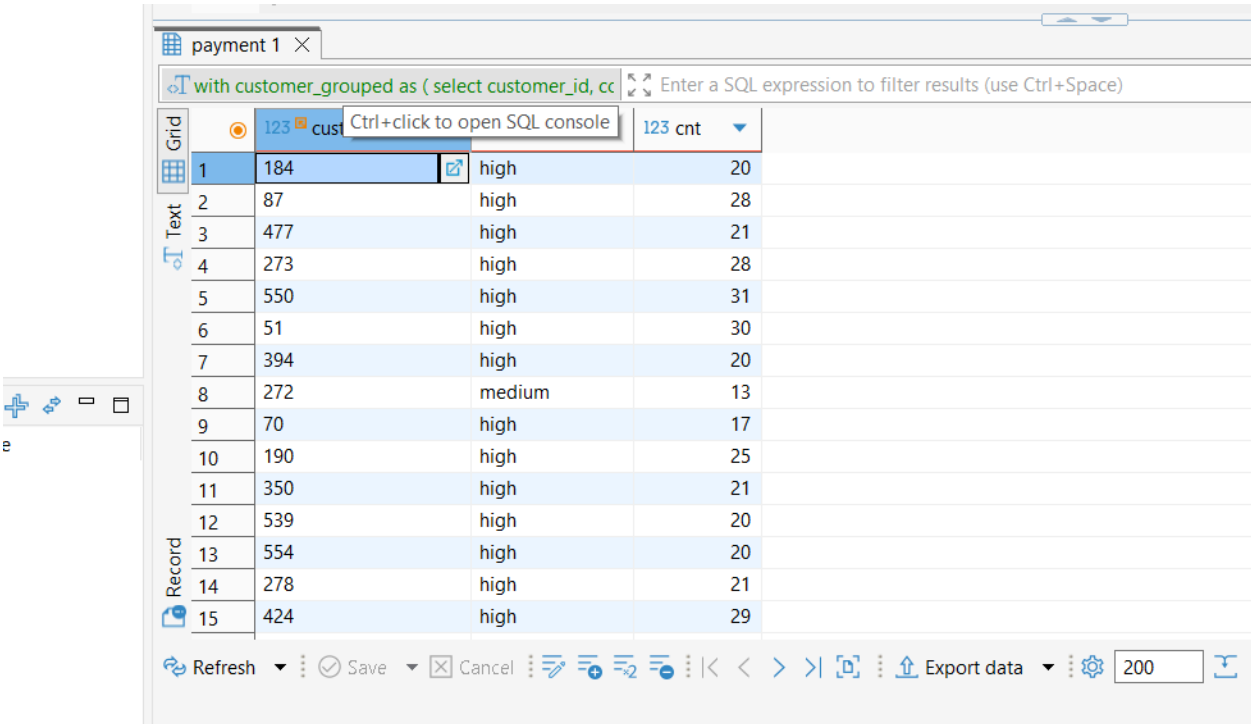
	hafta_kuni	jami_summa	ortaca_summa
1	Wednesday	5,843.19	4.2311296162
2	Tuesday	5,862.16	4.2356647399
3	Saturday	8,237.34	4.1898982706
4	Sunday	8,923.18	4.2858693564
5	Thursday	9,135	4.1522727273
6	Friday	11,096.65	4.2112523719
7	Monday	12,214.52	4.1433242877

```
6.with customer_grouped as (
  select customer_id, count(*) cnt from payment
  group by customer_id
)
select customer_id,
     CASE WHEN cnt between 1 and 5 THEN 'low'
         WHEN cnt between 6 and 15 THEN 'medium'
         ELSE 'high'
     end as toifalar,
     cnt
from customer_grouped;
```

izoh : yordamchi utoz yordamida qilingan vazifa

```
SELECT
 darajasi,
 COUNT(*) AS soni
FROM (
 SELECT
   customer_id,
   CASE
     WHEN count(amount) BETWEEN 1 AND 5 THEN 'quyi'
     WHEN count(amount) BETWEEN 6 AND 15 THEN 'orta'
     ELSE 'yuqori'
   END AS darajasi
   FROM payment
   GROUP BY customer_id
) AS tolov_soni
GROUP BY darajasi
```

Izoh: subqueryda yozilgan kod



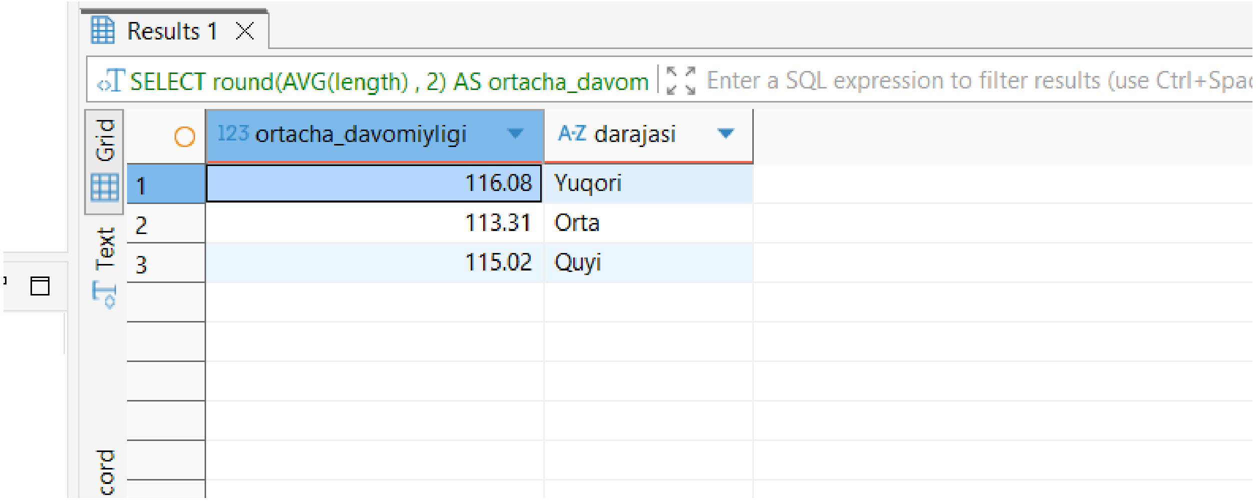
with customer_grouped as (select customer_id, cc

Enter a SQL expression to filter results (use Ctrl+Space)

	cust		cnt
1	184	high	20
2	87	high	28
3	477	high	21
4	273	high	28
5	550	high	31
6	51	high	30
7	394	high	20
8	272	medium	13
9	70	high	17
10	190	high	25
11	350	high	21
12	539	high	20
13	554	high	20
14	278	high	21
15	424	high	29

```
7.SELECT
        round(AVG(length) , 2) AS ortacha_davomiyligi,
        CASE
                WHEN replacement_cost < 15 THEN 'Quyi'
                WHEN replacement_cost BETWEEN 16 AND 20 THEN 'Orta'
                ELSE 'Yuqori'
        END AS darajasi
FROM film
GROUP  BY
        CASE
                WHEN replacement_cost < 15 THEN 'Quyi'
                WHEN replacement_cost BETWEEN 16 AND 20 THEN 'Orta'
                ELSE 'Yuqori'
        END
```

Izoh: replacement_cost boyicha 3 ta guruha bolib olinib keyin ularni ortacha uzunligi chiqaradigan query

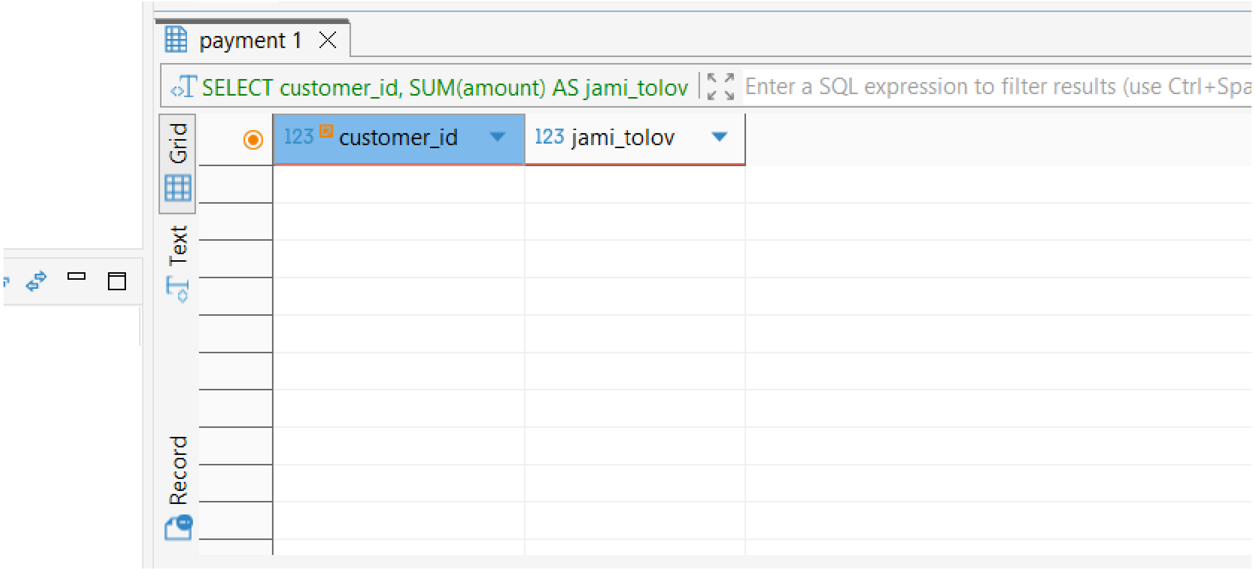


```
SELECT round(AVG(length) , 2) AS ortacha_davom
```

	ortacha_davomiyligi	darajasi
1	116.08	Yuqori
2	113.31	Orta
3	115.02	Quyi

```
8. SELECT
  customer_id,
  SUM(amount) AS jami_tolov
FROM payment
WHERE TO_CHAR(payment_date, 'YYYY-MM') = TO_CHAR(CURRENT_DATE - INTERVAL '1 month',
'YYYY-MM')
GROUP BY customer_id
ORDER BY jami_tolov DESC
LIMIT 5;
```

Izoh: databaseda otgan oyda sotuv bolmagan database eski



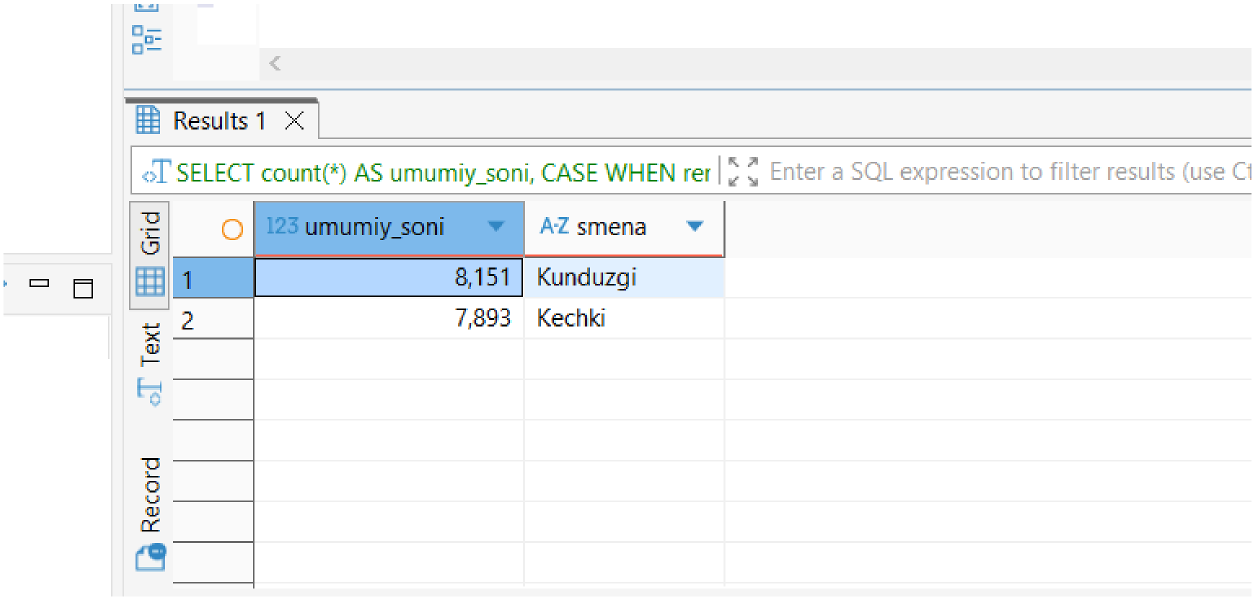
```
SELECT customer_id, SUM(amount) AS jami_tolov
```

123 customer_id	123 jami_tolov

9.

```
SELECT
        count(*) AS umumiy_soni,
        CASE
                 WHEN rental_date::time BETWEEN TIME '08:00' AND TIME '19:59' THEN 'Kunduzgi'
                ELSE 'Kechki'
        END AS smena
FROM rental
GROUP BY
        CASE
                 WHEN rental_date::time BETWEEN TIME '08:00' AND TIME '19:59' THEN 'Kunduzgi'
                ELSE 'Kechki'
        END
```

Izoh: bunda kechki va kundizgi smenalarda har birida qancha ijara amalga oshganini chiqaradigan query

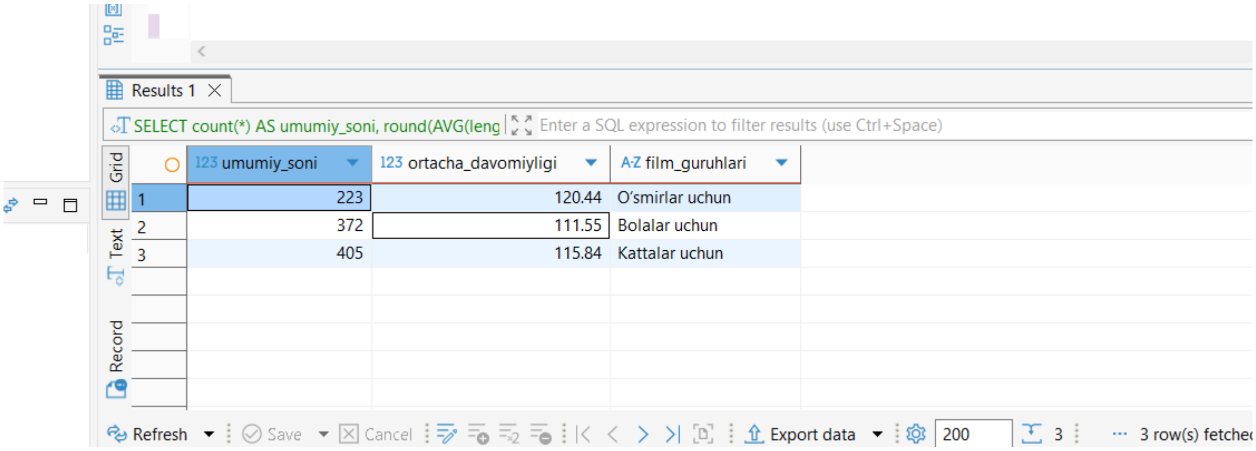


```
SELECT count(*) AS umumiy_soni, CASE WHEN rer
Enter a SQL expression to filter results (use Ct
```

	123 umumiy_soni	A-Z smena
1	8,151	Kunduzgi
2	7,893	Kechki

```
10.SELECT
        count(*) AS umumiy_soni,
        round(AVG(length) , 2) AS ortacha_davomiyligi,
        CASE
                WHEN rating IN ('G', 'PG') THEN 'Bolalar uchun'
                WHEN rating = 'PG-13' THEN 'O‘smirlar uchun'
                ELSE 'Kattalar uchun'
        END AS film_guruhlari
FROM film
GROUP BY
        CASE
                WHEN rating IN ('G', 'PG') THEN 'Bolalar uchun'
                WHEN rating = 'PG-13' THEN 'O‘smirlar uchun'
                ELSE 'Kattalar uchun'
        END;
```

Izoh: filmni reytingi boyicha guruhlarga bolish buni internetdan olgan malumotlarim boyicha bolib chiqdim va undagi film uzunligi va umumiy sonini chiqaradigan query

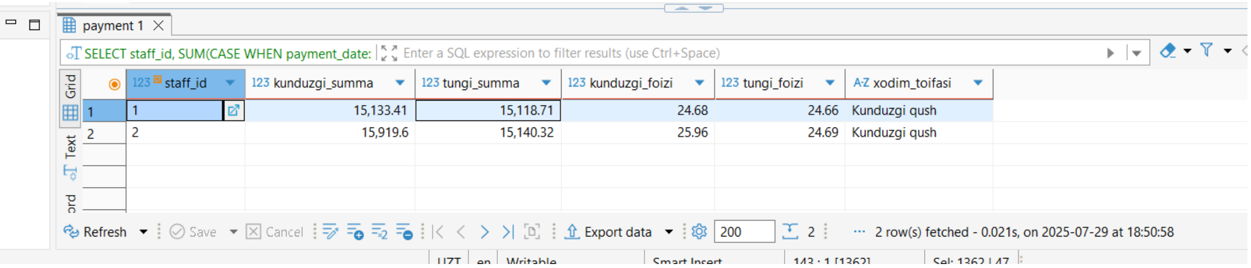


SELECT count(*) AS umumiy_soni, round(AVG(leng

Enter a SQL expression to filter results (use Ctrl+Space)

	umumiy_soni	ortacha_davomiyligi	film_guruhlari
1	223	120.44	O‘smirlar uchun
2	372	111.55	Bolalar uchun
3	405	115.84	Kattalar uchun

```
11.SELECT
  staff_id,
  SUM(CASE
      WHEN payment_date::time BETWEEN TIME '08:00' AND TIME '19:59' THEN amount
      ELSE 0
    END) AS kunduzgi_summa,
  SUM(CASE
      WHEN payment_date::time NOT BETWEEN TIME '08:00' AND TIME '19:59' THEN amount
      ELSE 0
    END) AS tungi_summa,
  ROUND(
    SUM(CASE
        WHEN payment_date::time BETWEEN TIME '08:00' AND TIME '19:59' THEN amount
        ELSE 0
      END) * 100.0 /
    (SELECT SUM(amount) FROM payment),
    2
  ) AS kunduzgi_foizi,
  ROUND(
    SUM(CASE
        WHEN payment_date::time NOT BETWEEN TIME '08:00' AND TIME '19:59' THEN amount
        ELSE 0
      END) * 100.0 /
    (SELECT SUM(amount) FROM payment),
    2
  ) AS tungi_foizi,
  CASE
    WHEN
      SUM(CASE
          WHEN payment_date::time BETWEEN TIME '08:00' AND TIME '19:59' THEN amount
          ELSE 0
        END) >
      SUM(CASE
          WHEN payment_date::time NOT BETWEEN TIME '08:00' AND TIME '19:59' THEN amount
          ELSE 0
        END)
    THEN 'Kunduzgi qush'
    ELSE 'Tungi ukki'
  END AS xodim_toifasi
FROM payment
GROUP BY staff_id
ORDER BY staff_id;
```



```
SELECT staff_id, SUM(CASE WHEN payment_date:
```

Enter a SQL expression to filter results (use Ctrl+Space)

	staff_id	kunduzgi_summa	tungi_summa	kunduzgi_foizi	tungi_foizi	xodim_toifasi
1	1	15,133.41	15,118.71	24.68	24.66	Kunduzgi qush
2	2	15,919.6	15,140.32	25.96	24.69	Kunduzgi qush

2 row(s) fetched - 0.021s, on 2025-07-29 at 18:50:58