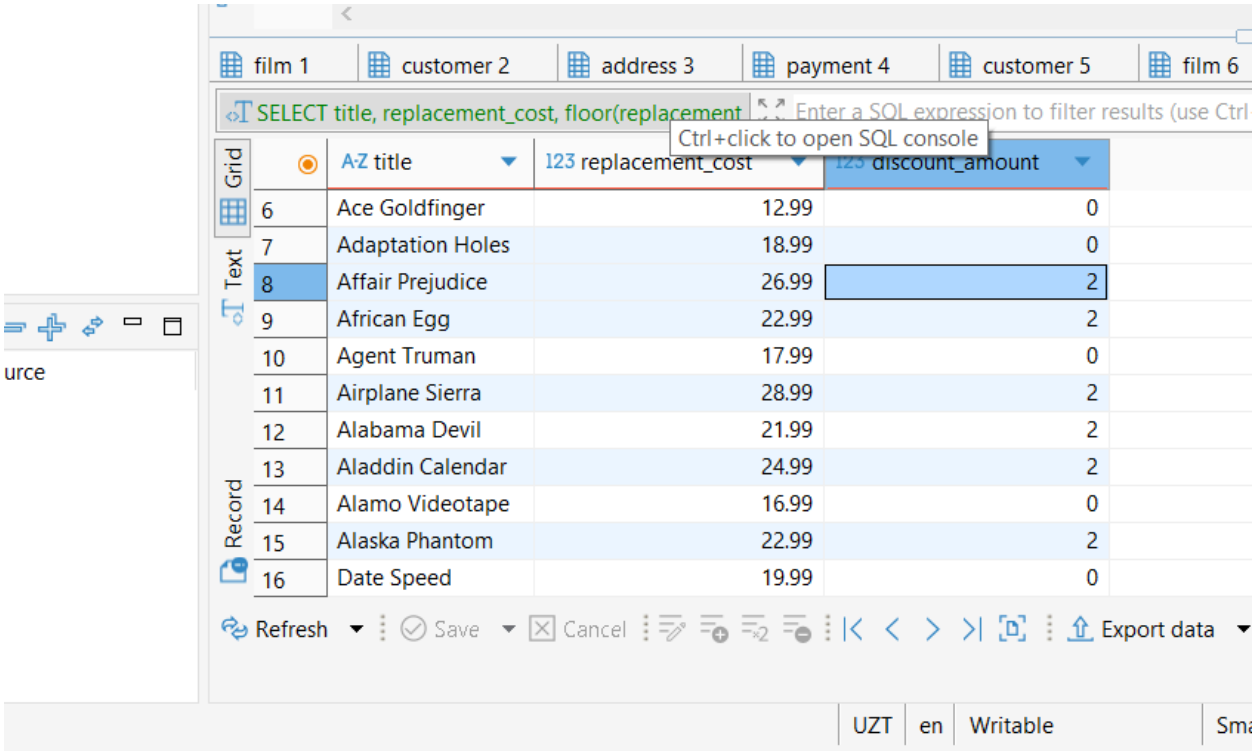
Built - in SQL functions

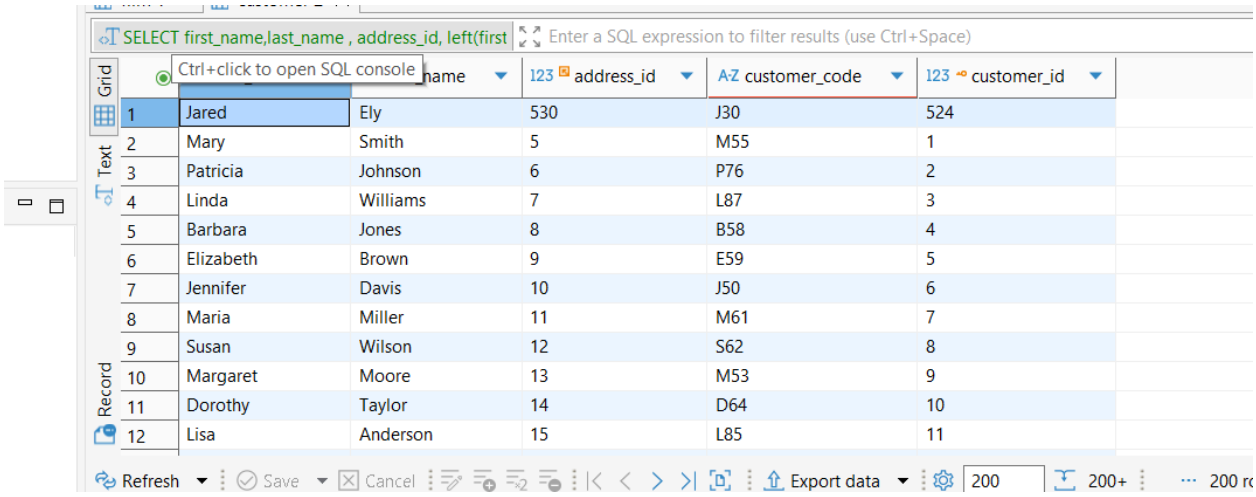
1.
```
SELECT
        title,
        replacement_cost,
        floor(replacement_cost / 20 ) * 20 * 0.1  AS discount_amount
FROM film
```

Izoh: har bir 20 dan oshgan haridalarga 10 fozilik chegirma berilishi uchun kod



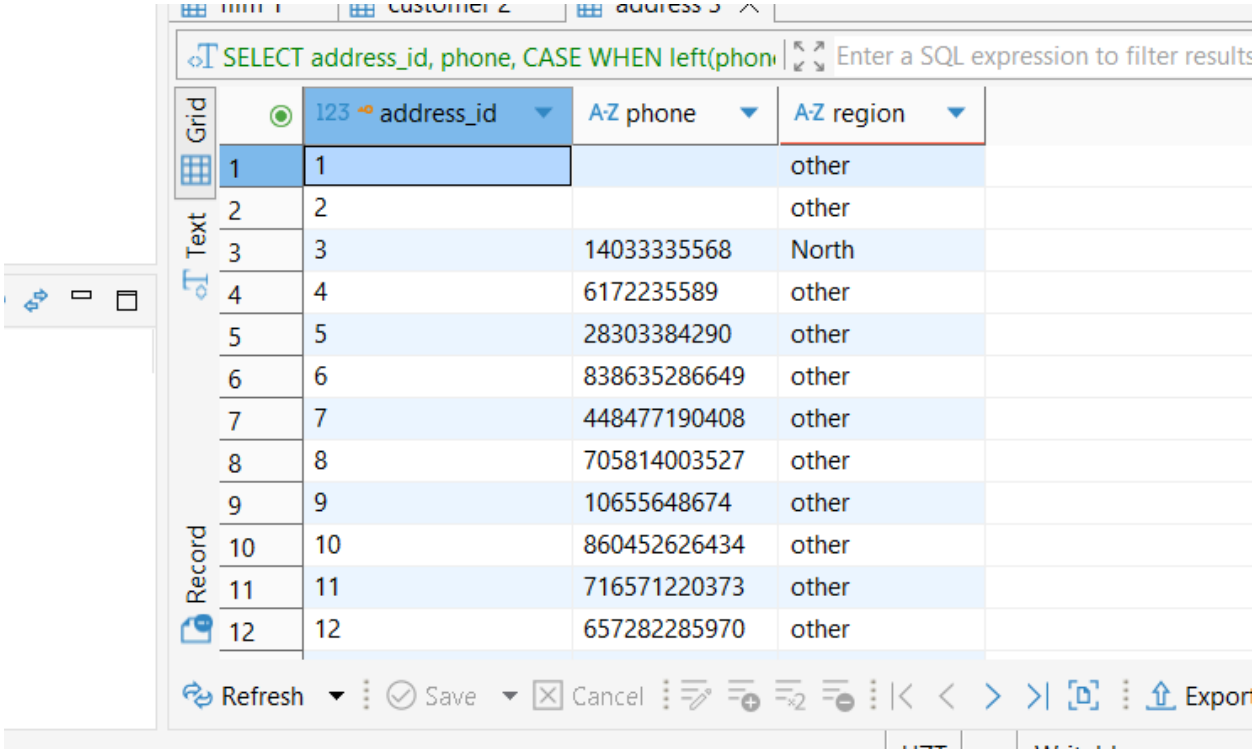
2.
```
SELECT first_name,last_name , address_id,
        left(first_name , 1) || '' || length(last_name) || '' || right(address_id::text , 1) AS customer_code,
        customer_id
FROM customer
```

Izoh: bunda mijozlarga maxsuss kod yaratiladi



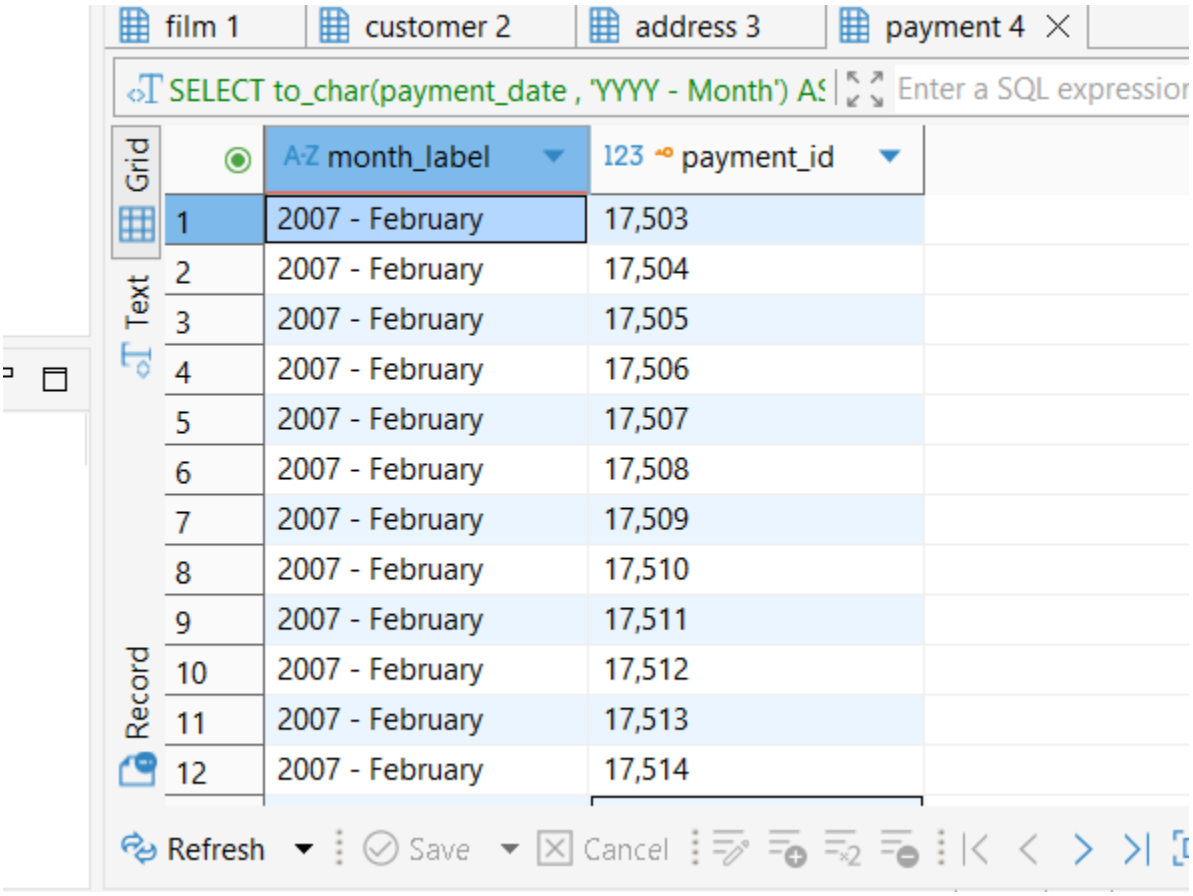
3.
```
SELECT
        address_id,
        phone,
        CASE
                WHEN left(phone::text , 3) IN ('140' , '150') THEN          'North'
                WHEN left(phone::text , 3) IN ('160') THEN 'East'
                ELSE 'other'
        END AS region
FROM address
```

Izoh : bu yerda mijozlarni telefon raqamlari boyicha ularni 3 guruhga bolib chiqilayapti



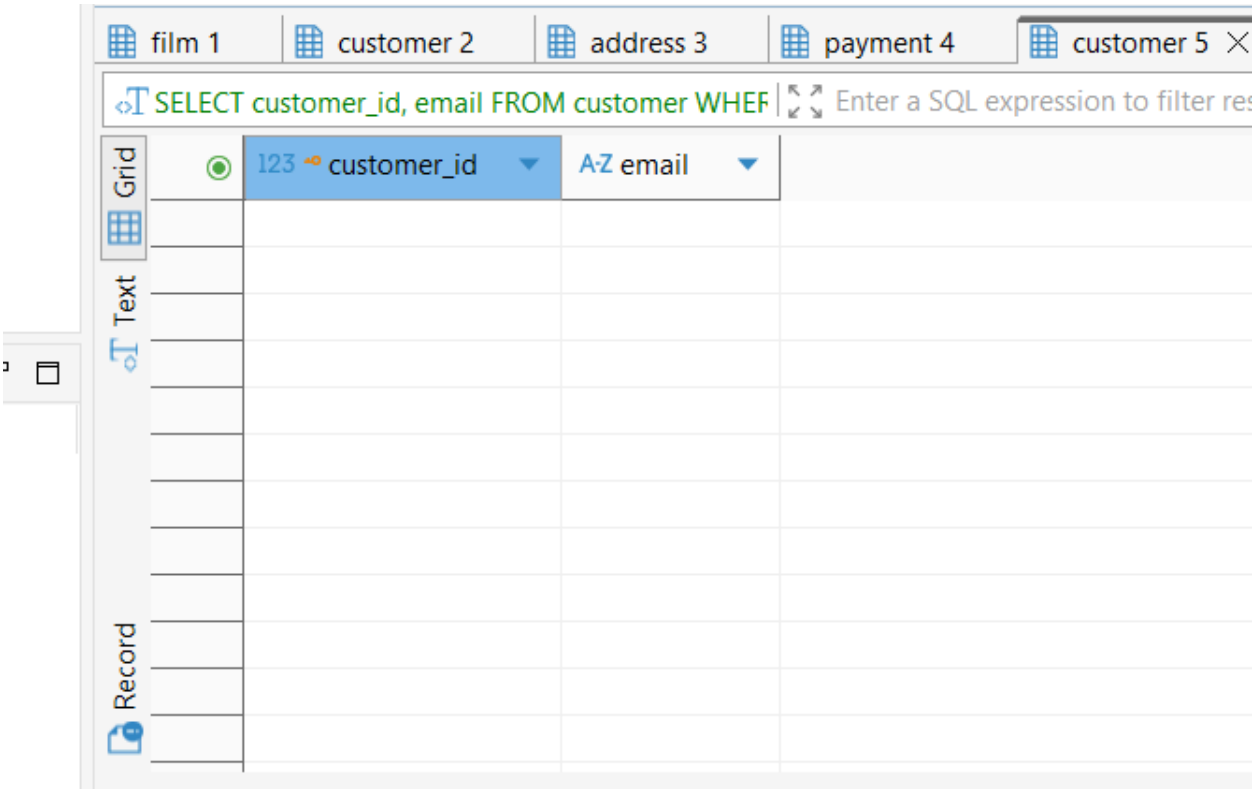
4.
```
SELECT to_char(payment_date , 'YYYY - Month') AS month_label,
       payment_id
FROM payment
```

izoh : bu yerda datani berilgan tartibda chiqarish uchun dastlan uni text holatiga ornatib keyin aytilgan tartibda joylashtiriladi



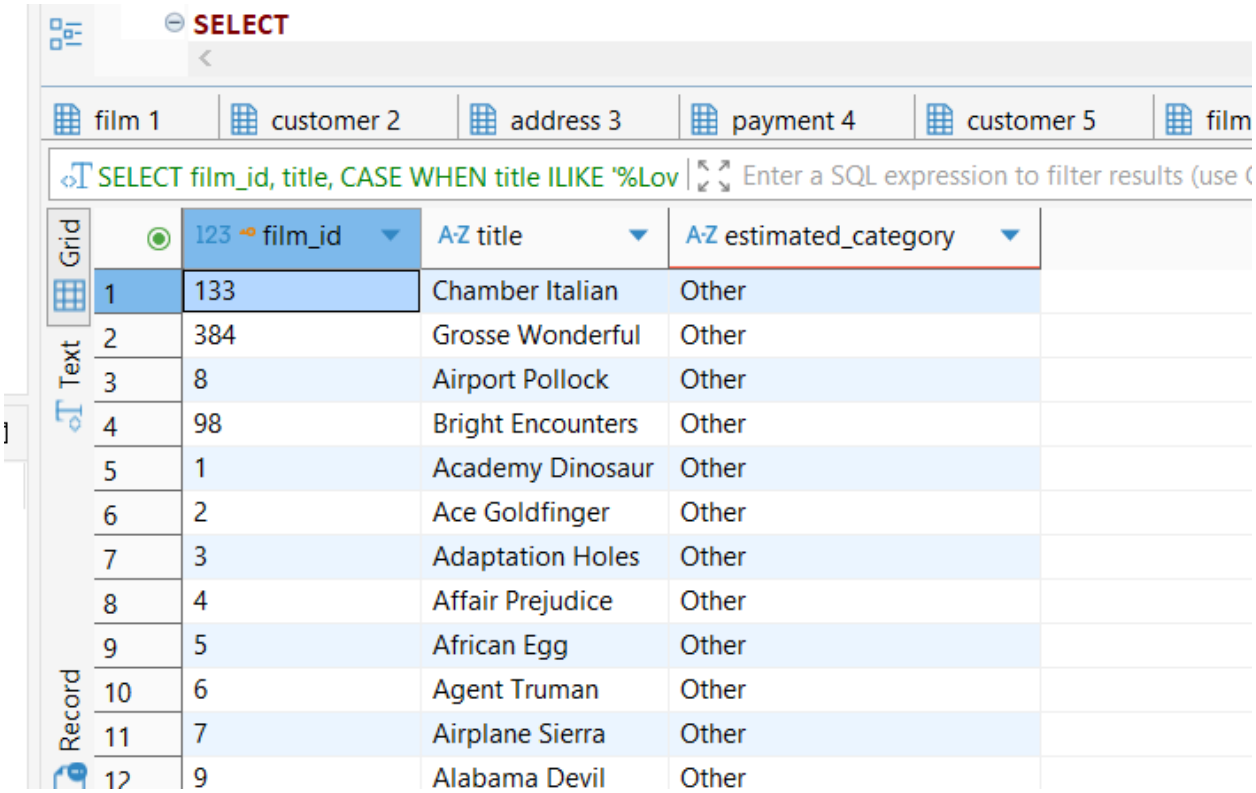
5.
```
SELECT customer_id, email
FROM customer
WHERE email NOT LIKE '%@%';
```

Izoh: email @ belgisi yoqlarini chiqarish uhcun yozilgan kod



6.
```
SELECT
        film_id,
        title,
        CASE
                WHEN title ILIKE '%Love%'  OR title ILIKE '%Wendding%' THEN 'Romance'
                WHEN title ILIKE '%Fight%' OR title ILIKE '%War%'     THEN 'Action'
                ELSE 'Other'
        END AS estimated_category
FROM film
```

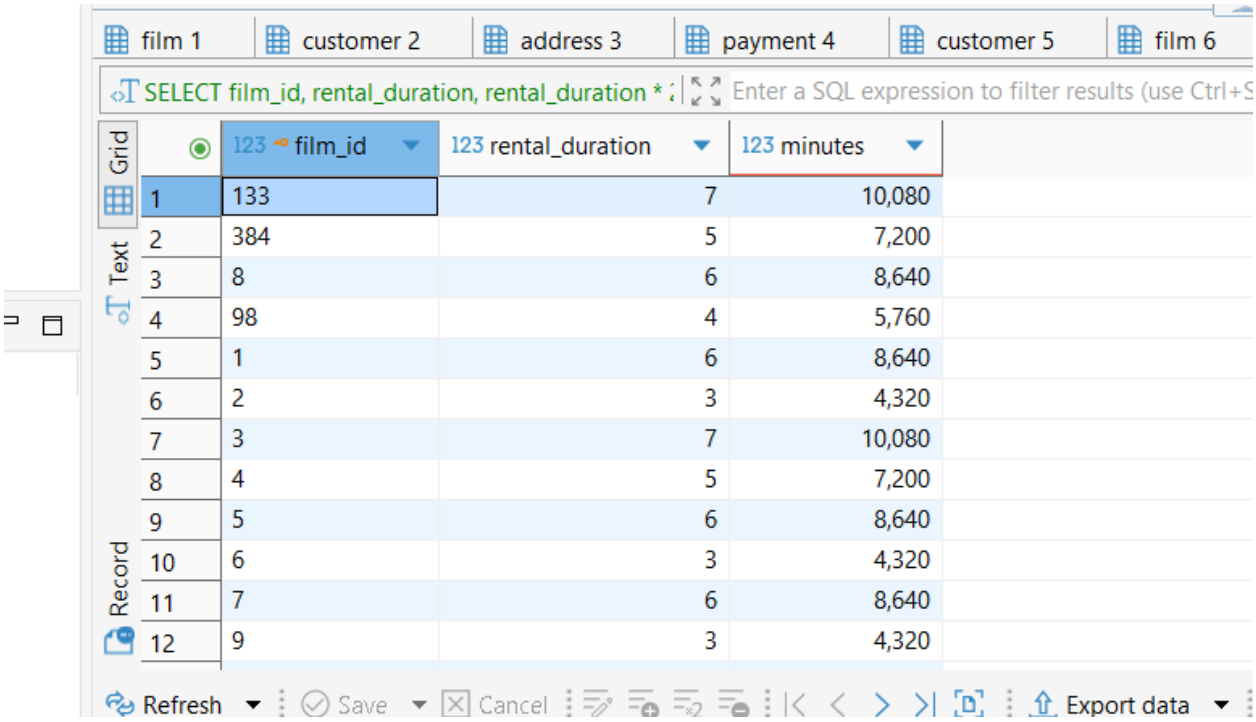
Izoh: filmlarni berilgan tartibda 3 guruhga bo’lish uchun case foydalanamiz



	film_id	title	estimated_category
1	133	Chamber Italian	Other
2	384	Grosse Wonderful	Other
3	8	Airport Pollock	Other
4	98	Bright Encounters	Other
5	1	Academy Dinosaur	Other
6	2	Ace Goldfinger	Other
7	3	Adaptation Holes	Other
8	4	Affair Prejudice	Other
9	5	African Egg	Other
10	6	Agent Truman	Other
11	7	Airplane Sierra	Other
12	9	Alabama Devil	Other

7.
```
SELECT
        film_id,
        rental_duration,
        rental_duration * 24 * 60 AS minutes
FROM film
```

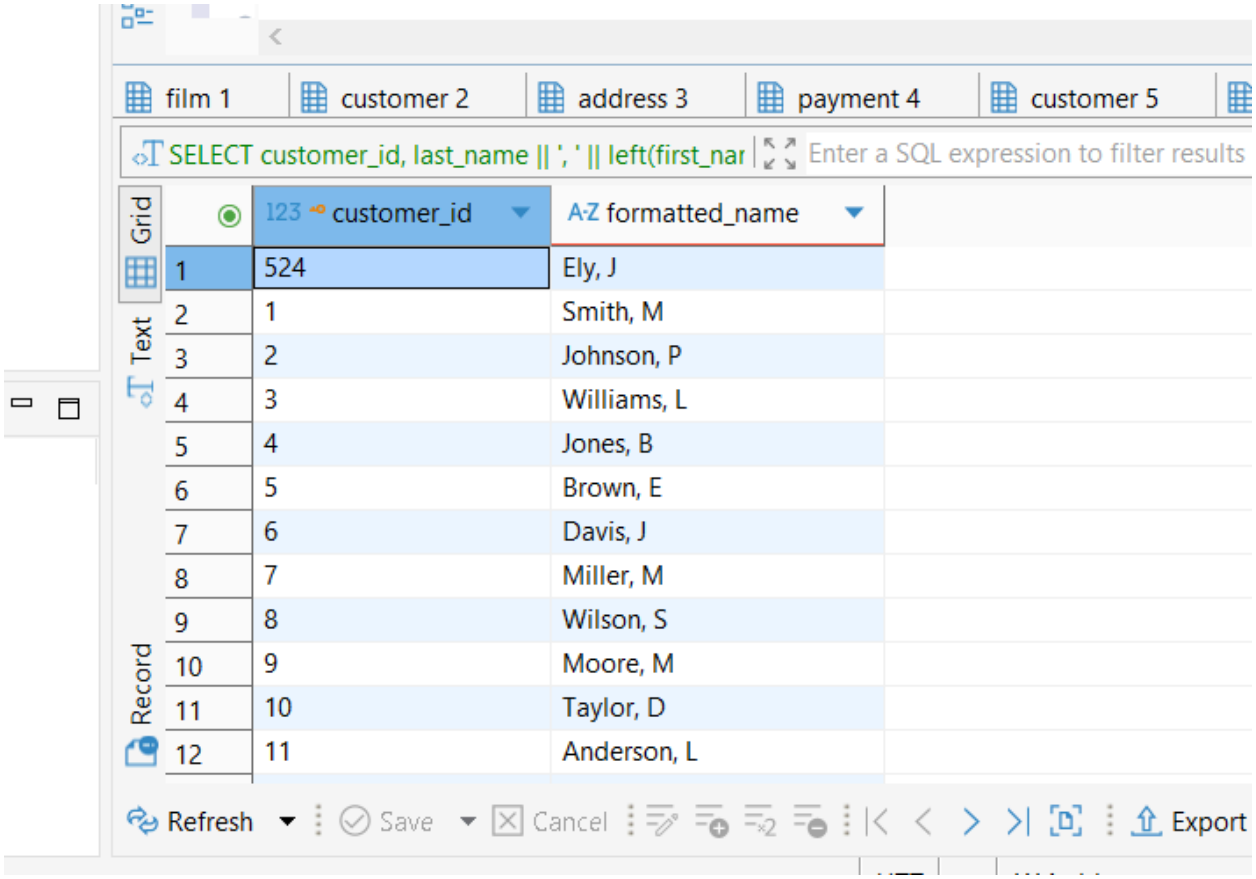
Izoh: filmlaring ijaraga berilish kunlarni soatlarda chiqariladi



	123 film_id	123 rental_duration	123 minutes
1	133	7	10,080
2	384	5	7,200
3	8	6	8,640
4	98	4	5,760
5	1	6	8,640
6	2	3	4,320
7	3	7	10,080
8	4	5	7,200
9	5	6	8,640
10	6	3	4,320
11	7	6	8,640
12	9	3	4,320

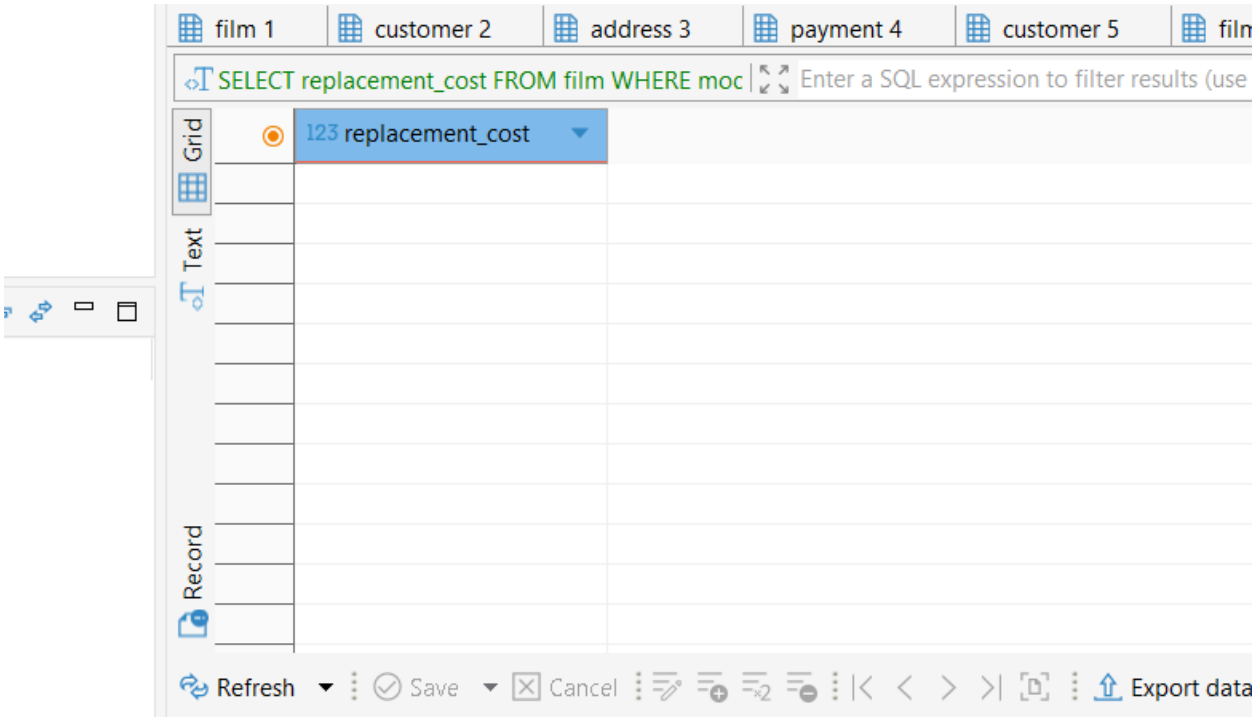
8.
```
SELECT
        customer_id,
        last_name || ', ' || left(first_name , 1)  AS formatted_name
FROM customer
```

Izoh: berilgan tartibda familiya va ism ning 1 harfini chiqarish uchun yozilgan kod



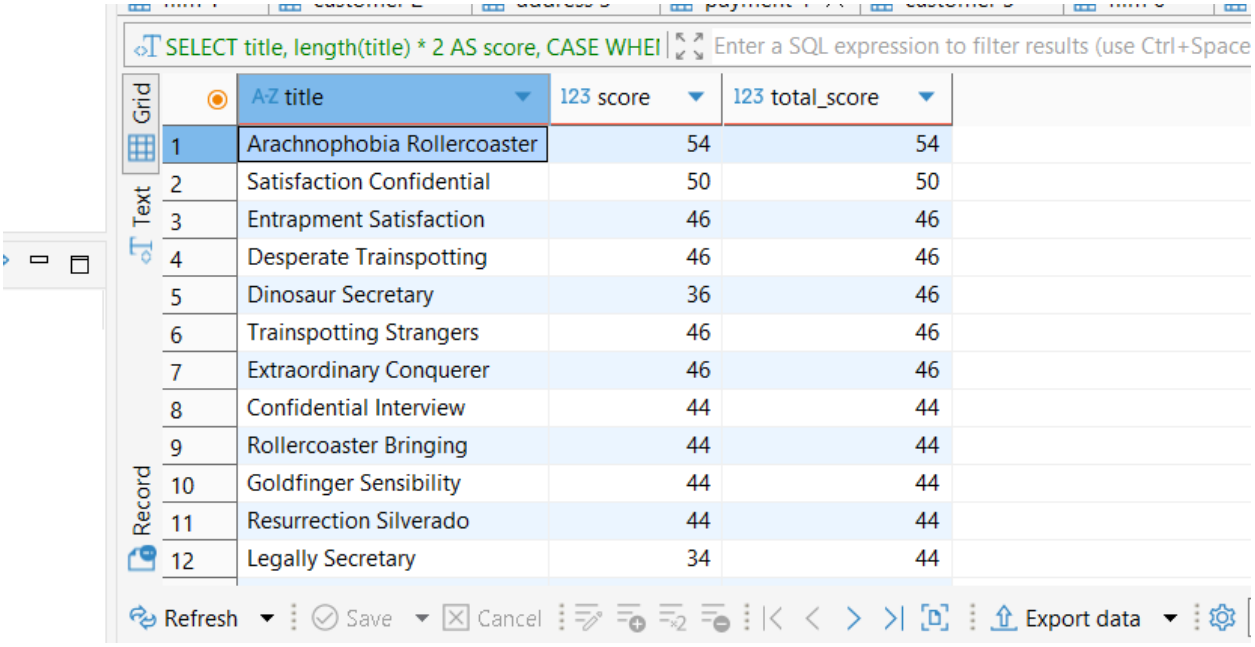
9.
```
SELECT
        replacement_cost
FROM film
WHERE mod(replacement_cost , 1) = 0
```

Izoh: bu yerda filmning ijaraga berilish narxining butun qiymatlari bormi yoqmi shuni aniqlanadi buni mod da qilingan



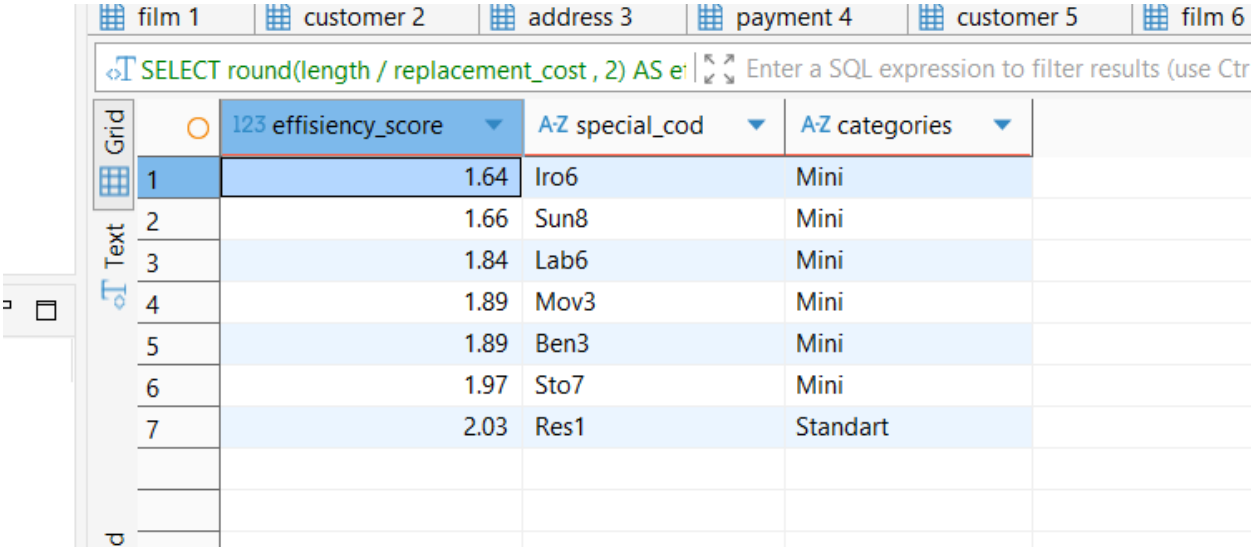
10.
```sql
SELECT
        title,
        length(title) * 2 AS score,
        CASE
                WHEN title ILIKE '%Secret%' THEN length(title) * 2 + 10
                ELSE length(title) * 2
        END AS total_score
FROM film
ORDER BY total_score DESC
```

Izoh: bu kodda filmning titlega kora unga ball beriladi va agar berilgan jumla bolsa film titleda unga qoshimcha ball beriladdi



11.
```
SELECT
        round(lenght / replacement_cost  , 2) AS effisiency_score,
        LEFT(title , 3) || '' || right(length::text , 1) AS special_cod,
        CASE
                WHEN length > 60 THEN 'Mini'
                WHEN length BETWEEN 60 AND 120 THEN 'Standart'
                ELSE 'Epic'
        END AS categories
FROM film
WHERE rental_duration > 5 AND
replacement_cost > 15
ORDER BY effisiency_score
LIMIT 7
```

Izoh: bu yerda filmning samaradorligini hisoblash va ijaraga berilgan muddati qayta sotib olish narxiga berilgan shartlar asosida bo'lgan filmlarni va uning uzunligi boyicha 3 guruhga bo'linishini chiqarib ko'rsatilgan va songida eng iqtisodiy sarador filmlarning top 7 ligi chiqarilgan



	123 effisiency_score	A-Z special_cod	A-Z categories
1	1.64	Iro6	Mini
2	1.66	Sun8	Mini
3	1.84	Lab6	Mini
4	1.89	Mov3	Mini
5	1.89	Ben3	Mini
6	1.97	Sto7	Mini
7	2.03	Res1	Standart