Homework07 (GROUP WORK)

SQL Queries – in this assignment you will be asked to create several SQL queries relating to the Sakila database that we installed in class. You may freely use DBeaver to create these queries, but I will expect your solution to show me the SQL code to answer or complete the tasks below.

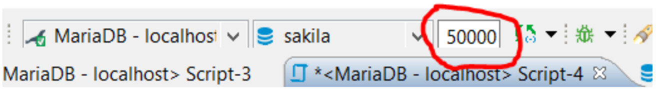
There is a document on Google Drive that demonstrates how your solution should be structured.

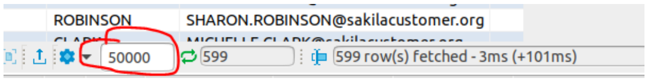
You should submit a **SINGLE PDF** document to your team submission directory.

*The PDF document should include a screenshot of your output for each question, as well as the query that created the output, and a count for the number of records returned by the query***. **THE QUERY SHOULD BE PASTED AS TEXT SO I CAN COPY PASTE YOUR QUERY!!!!! If your query is an image file and I can't copy/paste it to test it I will count your answer WRONG!!!**

Many of these queries will have 100's of rows as a result. You do not need to capture ALL … just up to 10-15 rows to show your output is correct.

(**Note that you may need to set your maximum number of results to a higher number … 50000 will be more than enough).


MariaDB - localhost
sakila
50000
MariaDB - localhost> Script-3
*<MariaDB - localhost> Script-4

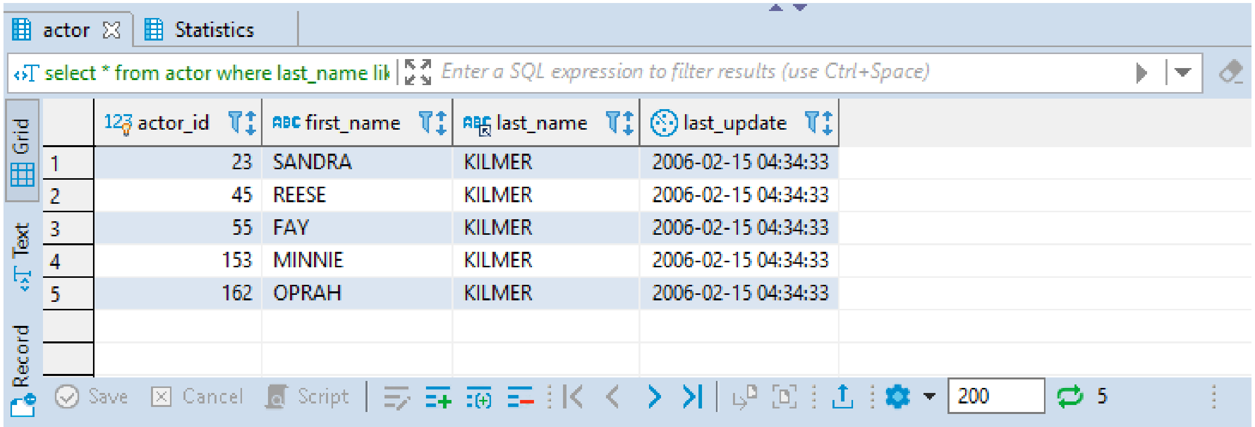


599 row(s) fetched - 3ms (+101ms)

Write Queries to answer the following questions.

1. Which actors have the last name Kilmer? (first name and last name)

```
use sakila;
select * from actor where last_name like 'Kilmer';
```



select * from actor where last_name lik

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

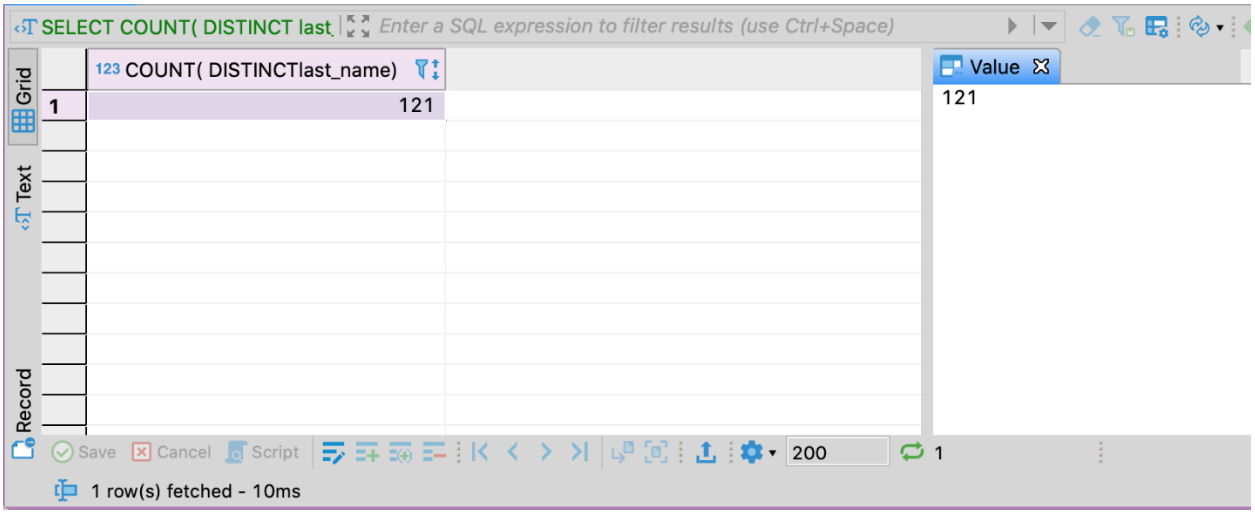
	actor_id	first_name	last_name	last_update
1	23	SANDRA	KILMER	2006-02-15 04:34:33
2	45	REESE	KILMER	2006-02-15 04:34:33
3	55	FAY	KILMER	2006-02-15 04:34:33
4	153	MINNIE	KILMER	2006-02-15 04:34:33
5	162	OPRAH	KILMER	2006-02-15 04:34:33

5 Rows

2. How many unique actor last names are there?

```
USE sakila;

SELECT
    COUNT( DISTINCT last_name)
FROM
    actor;
```



SELECT COUNT(DISTINCT last
Enter a SQL expression to filter results (use Ctrl+Space)
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1

	COUNT(DISTINCTlast_name)
1	121

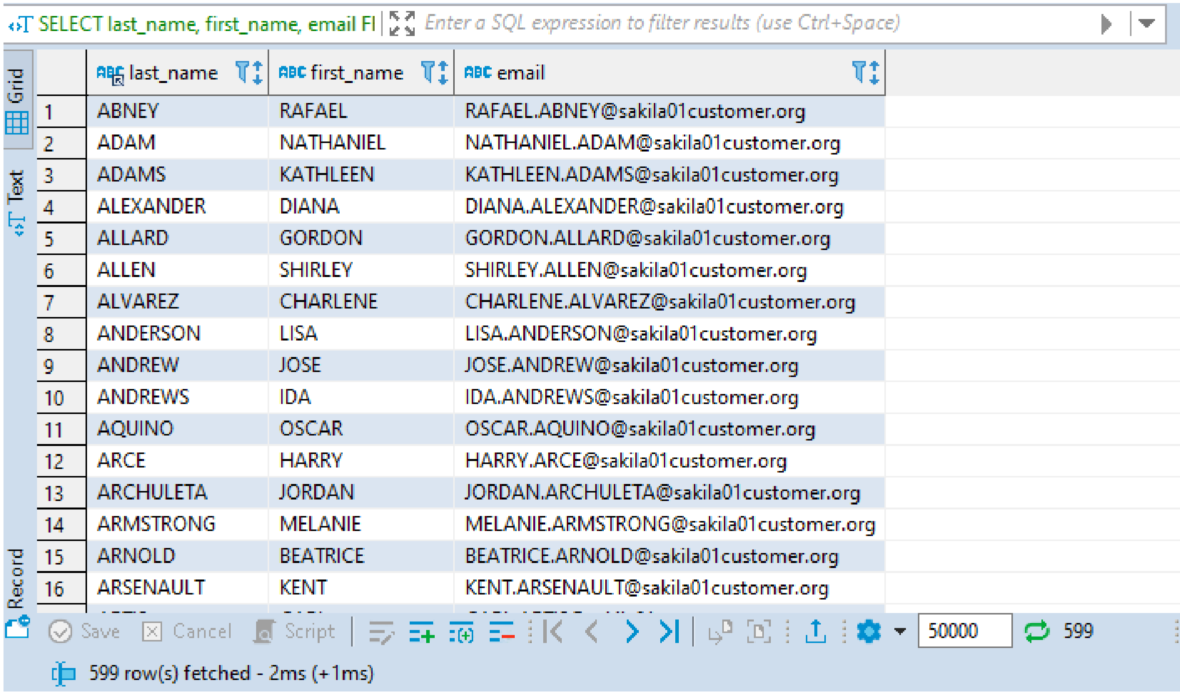
```
121
```

1 row(s) fetched - 10ms

121 unique last names

3. Write a query that produces the last name, first name and email-address of all customers in the database, sorted by last name.

```
USE
sakila;
SELECT
last_name,
first_name,
email
FROM
customer
ORDER BY
last_name asc;
```



SELECT last_name, first_name, email FI

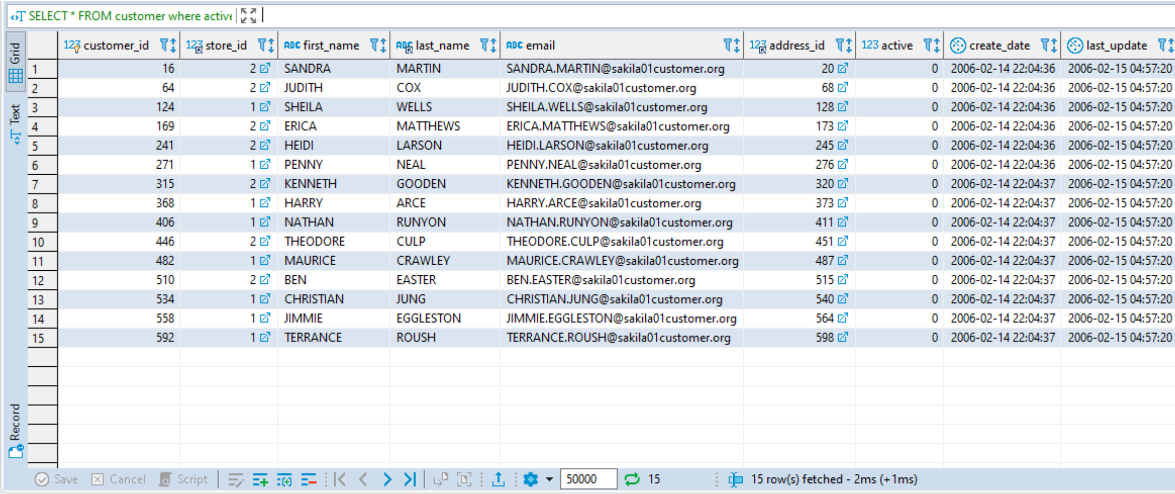
	last_name	first_name	email
1	ABNEY	RAFAEL	RAFAEL.ABNEY@sakila01customer.org
2	ADAM	NATHANIEL	NATHANIEL.ADAM@sakila01customer.org
3	ADAMS	KATHLEEN	KATHLEEN.ADAMS@sakila01customer.org
4	ALEXANDER	DIANA	DIANA.ALEXANDER@sakila01customer.org
5	ALLARD	GORDON	GORDON.ALLARD@sakila01customer.org
6	ALLEN	SHIRLEY	SHIRLEY.ALLEN@sakila01customer.org
7	ALVAREZ	CHARLENE	CHARLENE.ALVAREZ@sakila01customer.org
8	ANDERSON	LISA	LISA.ANDERSON@sakila01customer.org
9	ANDREW	JOSE	JOSE.ANDREW@sakila01customer.org
10	ANDREWS	IDA	IDA.ANDREWS@sakila01customer.org
11	AQUINO	OSCAR	OSCAR.AQUINO@sakila01customer.org
12	ARCE	HARRY	HARRY.ARCE@sakila01customer.org
13	ARCHULETA	JORDAN	JORDAN.ARCHULETA@sakila01customer.org
14	ARMSTRONG	MELANIE	MELANIE.ARMSTRONG@sakila01customer.org
15	ARNOLD	BEATRICE	BEATRICE.ARNOLD@sakila01customer.org
16	ARSENAULT	KENT	KENT.ARSENAULT@sakila01customer.org

599 row(s) fetched - 2ms (+1ms)

599 Rows

4. Same as #3, but only list the customers who are inactive. (So that a manager could then email all inactive members a special deal to attract them back to the store). (active = 0 indicates inactive)

```
USE
sakila;
SELECT
*
FROM
customer
where
active like 0;
```



SELECT * FROM customer where activ

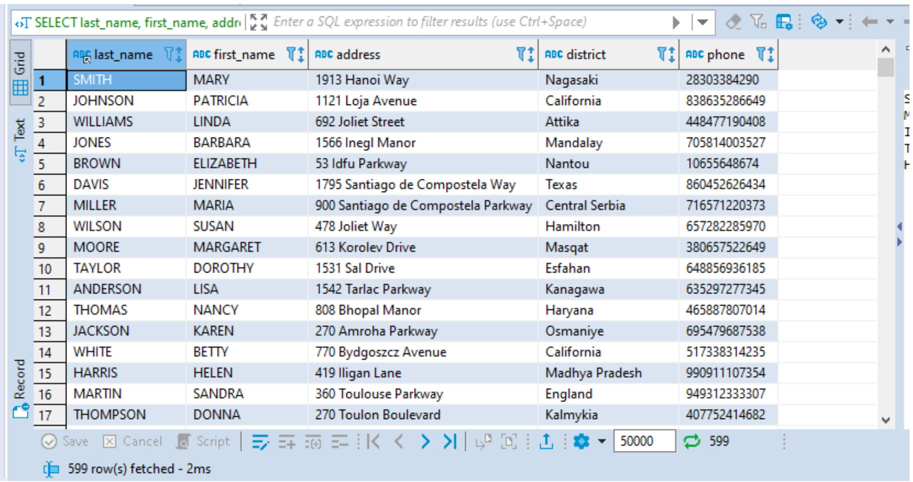
	customer_id	store_id	first_name	last_name	email	address_id	active	create_date	last_update
1	16	2	SANDRA	MARTIN	SANDRA.MARTIN@sakila01customer.org	20	0	2006-02-14 22:04:36	2006-02-15 04:57:20
2	64	2	JUDITH	COX	JUDITH.COX@sakila01customer.org	68	0	2006-02-14 22:04:36	2006-02-15 04:57:20
3	124	1	SHEILA	WELLS	SHEILA.WELLS@sakila01customer.org	128	0	2006-02-14 22:04:36	2006-02-15 04:57:20
4	169	2	ERICA	MATTHEWS	ERICA.MATTHEWS@sakila01customer.org	173	0	2006-02-14 22:04:36	2006-02-15 04:57:20
5	241	2	HEIDI	LARSON	HEIDI.LARSON@sakila01customer.org	245	0	2006-02-14 22:04:36	2006-02-15 04:57:20
6	271	1	PENNY	NEAL	PENNY.NEAL@sakila01customer.org	276	0	2006-02-14 22:04:36	2006-02-15 04:57:20
7	315	2	KENNETH	GOODEN	KENNETH.GOODEN@sakila01customer.org	320	0	2006-02-14 22:04:37	2006-02-15 04:57:20
8	368	1	HARRY	ARCE	HARRY.ARCE@sakila01customer.org	373	0	2006-02-14 22:04:37	2006-02-15 04:57:20
9	406	1	NATHAN	RUNYON	NATHAN.RUNYON@sakila01customer.org	411	0	2006-02-14 22:04:37	2006-02-15 04:57:20
10	446	2	THEODORE	CULP	THEODORE.CULP@sakila01customer.org	451	0	2006-02-14 22:04:37	2006-02-15 04:57:20
11	482	1	MAURICE	CRAWLEY	MAURICE.CRAWLEY@sakila01customer.org	487	0	2006-02-14 22:04:37	2006-02-15 04:57:20
12	510	2	BEN	EASTER	BEN.EASTER@sakila01customer.org	515	0	2006-02-14 22:04:37	2006-02-15 04:57:20
13	534	1	CHRISTIAN	JUNG	CHRISTIAN.JUNG@sakila01customer.org	540	0	2006-02-14 22:04:37	2006-02-15 04:57:20
14	558	1	JIMMIE	EGGLESTON	JIMMIE.EGGLESTON@sakila01customer.org	564	0	2006-02-14 22:04:37	2006-02-15 04:57:20
15	592	1	TERRANCE	ROUSH	TERRANCE.ROUSH@sakila01customer.org	598	0	2006-02-14 22:04:37	2006-02-15 04:57:20

15 row(s) fetched - 2ms (+1ms)

15 Rows

5. Write a query that produces the last name, first name, address, district, and phone number for every customer in the customer table. (You don't need to include the city or postal code for this question).

```
SELECT
    last_name,
    first_name,
    address,
    address.district,
    address.phone
FROM
    customer,
    address
WHERE
    address.address_id = customer.address_id AND
```



SELECT last_name, first_name, addr

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

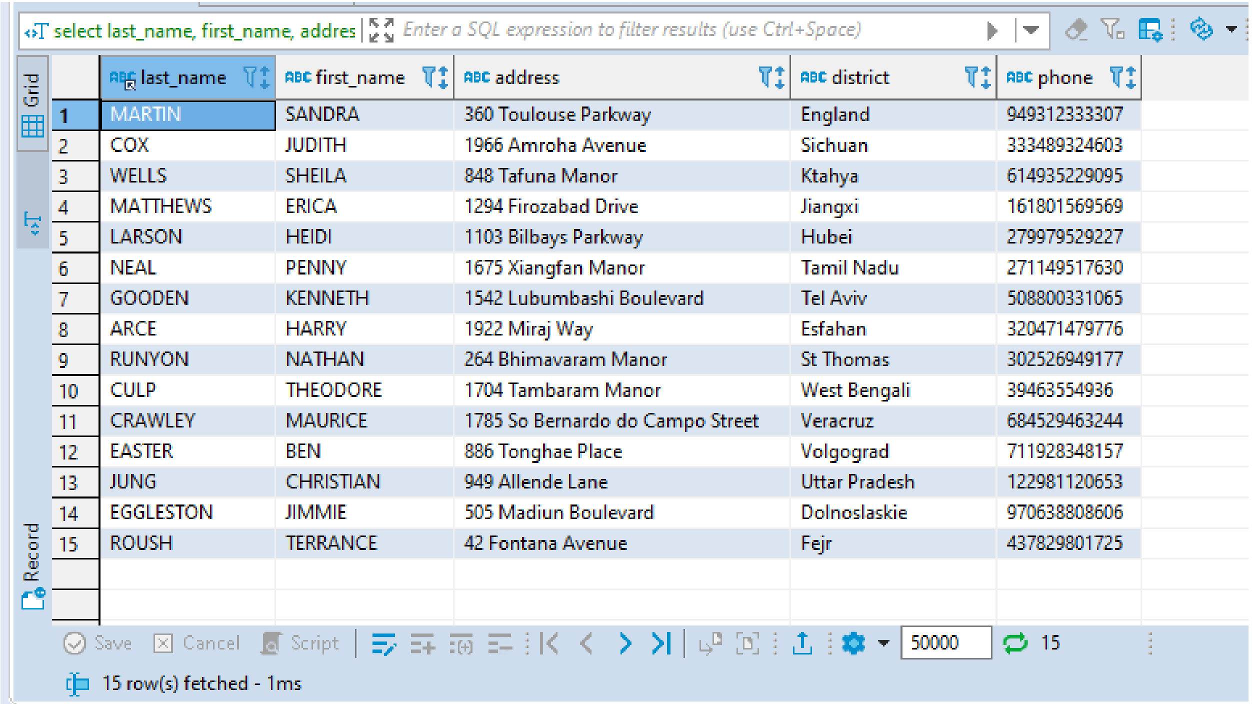
	last_name	first_name	address	district	phone
1	SMITH	MARY	1913 Hanoi Way	Nagasaki	28303384290
2	JOHNSON	PATRICIA	1121 Loja Avenue	California	838635286649
3	WILLIAMS	LINDA	692 Joliet Street	Attika	448477190408
4	JONES	BARBARA	1566 Inegl Manor	Mandalay	705814003527
5	BROWN	ELIZABETH	53 Idfu Parkway	Nantou	10655648674
6	DAVIS	JENNIFER	1795 Santiago de Compostela Way	Texas	860452626434
7	MILLER	MARIA	900 Santiago de Compostela Parkway	Central Serbia	716571220373
8	WILSON	SUSAN	478 Joliet Way	Hamilton	657282285970
9	MOORE	MARGARET	613 Korolev Drive	Masqat	380657522649
10	TAYLOR	DOROTHY	1531 Sal Drive	Esfahan	648856936185
11	ANDERSON	LISA	1542 Tarlac Parkway	Kanagawa	635297277345
12	THOMAS	NANCY	808 Bhopal Manor	Haryana	465887807014
13	JACKSON	KAREN	270 Amroha Parkway	Osmaniye	695479687538
14	WHITE	BETTY	770 Bydgoszcz Avenue	California	517338314235
15	HARRIS	HELEN	419 Iligan Lane	Madhya Pradesh	990911107354
16	MARTIN	SANDRA	360 Toulouse Parkway	England	949312333307
17	THOMPSON	DONNA	270 Toulon Boulevard	Kalmykia	407752414682

599 row(s) fetched - 2ms

599 Rows

6. Same as #5, but only list the customers who are inactive, and include the city, country, postal code for each customer as well.

```
select
        last_name,
        first_name,
        address,
        address.district,
        address.phone
from
        customer,
        address
where
        address.address_id = customer.address_id
        and customer.active = 0;
```


select last_name, first_name, addres
Enter a SQL expression to filter results (use Ctrl+Space)
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Script
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15

	last_name	first_name	address	district	phone
1	MARTIN	SANDRA	360 Toulouse Parkway	England	949312333307
2	COX	JUDITH	1966 Amroha Avenue	Sichuan	333489324603
3	WELLS	SHEILA	848 Tafuna Manor	Ktahya	614935229095
4	MATTHEWS	ERICA	1294 Firozabad Drive	Jiangxi	161801569569
5	LARSON	HEIDI	1103 Bilbays Parkway	Hubei	279979529227
6	NEAL	PENNY	1675 Xiangfan Manor	Tamil Nadu	271149517630
7	GOODEN	KENNETH	1542 Lubumbashi Boulevard	Tel Aviv	508800331065
8	ARCE	HARRY	1922 Miraj Way	Esfahan	320471479776
9	RUNYON	NATHAN	264 Bhimavaram Manor	St Thomas	302526949177
10	CULP	THEODORE	1704 Tambaram Manor	West Bengali	39463554936
11	CRAWLEY	MAURICE	1785 So Bernardo do Campo Street	Veracruz	684529463244
12	EASTER	BEN	886 Tonghae Place	Volgograd	711928348157
13	JUNG	CHRISTIAN	949 Allende Lane	Uttar Pradesh	122981120653
14	EGGLESTON	JIMMIE	505 Madiun Boulevard	Dolnoslaskie	970638808606
15	ROUSH	TERRANCE	42 Fontana Avenue	Fejr	437829801725

15 row(s) fetched - 1ms

15 Rows

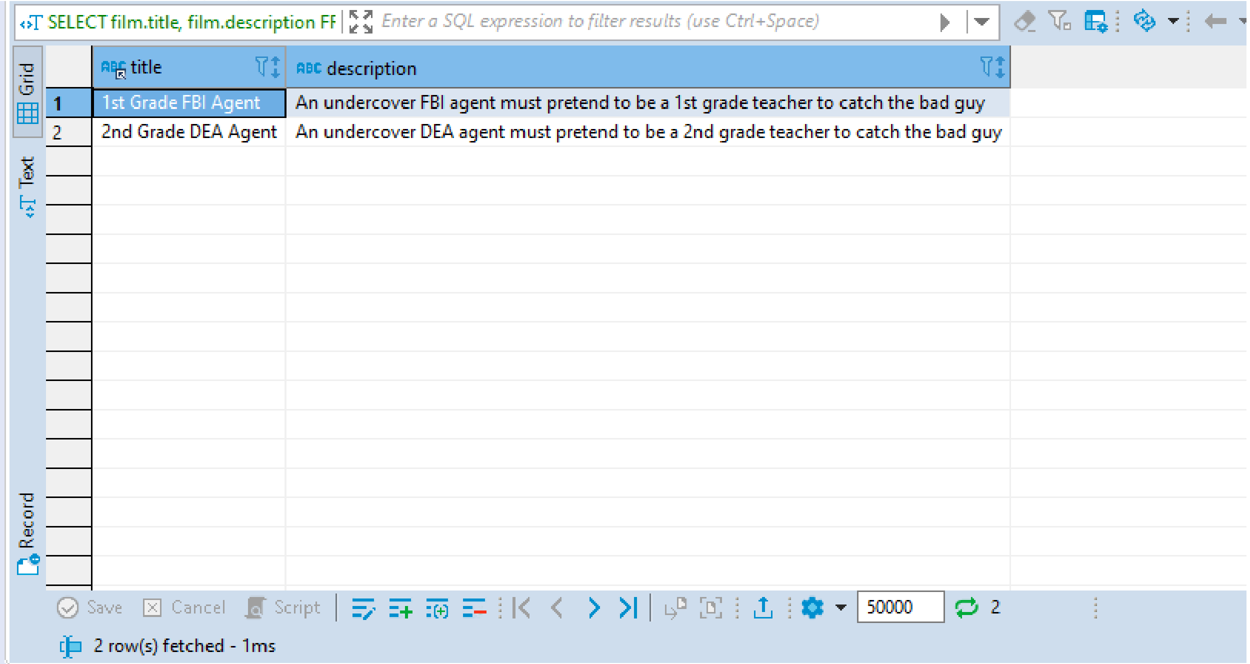
7. Add 2 rows to the Film Database before working on this query. These new films are the only results you should get.

Use this script to insert the new records.

```
INSERT INTO sakila.film
(film_id,title,description,release_year,language_id,rental_duration,rental_rate,length,replacement_cos
t,rating,special_features)
VALUES (1001,'1st Grade FBI Agent','An undercover FBI agent must pretend to be a 1st grade teacher to
catch the bad guy',2014,2,5,4.99,123,20.99,'PG-13','trailers'),
(1002,'2nd Grade DEA Agent','An undercover DEA agent must pretend to be a 2nd grade teacher to catch
the bad guy',2015,3,4,5.99,132,16.99,'PG-13','trailers');
```

Write a query that produces the title and description of all films that are **not in English**.

```
SELECT
    film.title,
    film.description
FROM
    film
WHERE
    language_id != 1;
```


SELECT film.title, film.description FF
Enter a SQL expression to filter results (use Ctrl+Space)
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Script
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2

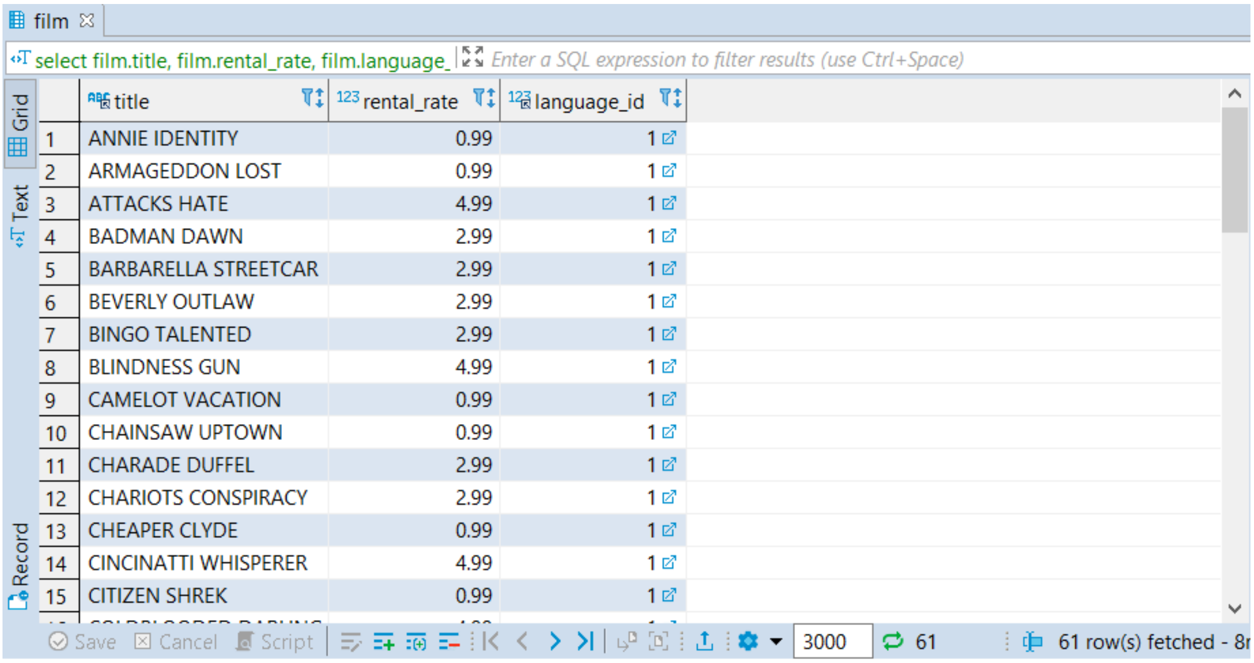
	title	description
1	1st Grade FBI Agent	An undercover FBI agent must pretend to be a 1st grade teacher to catch the bad guy
2	2nd Grade DEA Agent	An undercover DEA agent must pretend to be a 2nd grade teacher to catch the bad guy

2 row(s) fetched - 1ms

2 Rows

8. Write a query that produces the title, rental rate, and language for all Sci-Fi films.

```
use sakila;
select film.title, film.rental_rate, film.language_id
from film
inner join film_category on film.film_id = film_category.film_id
where
    film.film_id = film_category.film_id
    and film_category.category_id = 14;
```



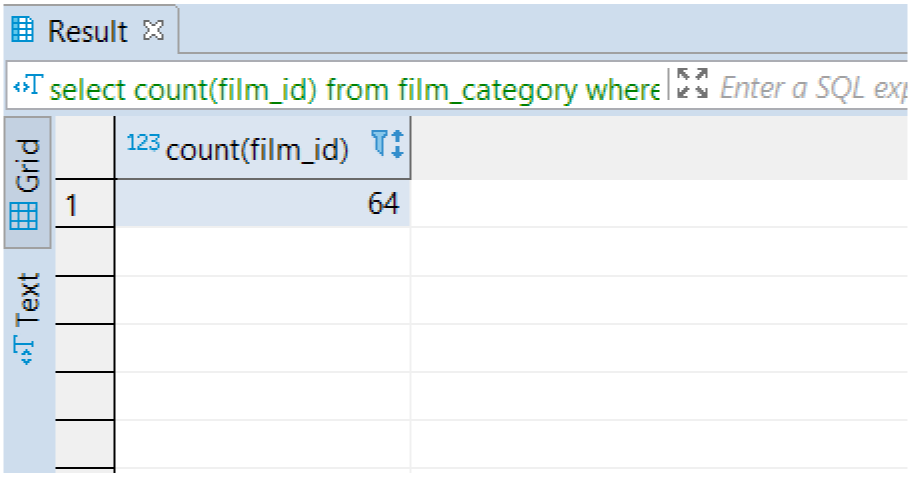
select film.title, film.rental_rate, film.language_

	title	rental_rate	language_id
1	ANNIE IDENTITY	0.99	1
2	ARMAGEDDON LOST	0.99	1
3	ATTACKS HATE	4.99	1
4	BADMAN DAWN	2.99	1
5	BARBARELLA STREETCAR	2.99	1
6	BEVERLY OUTLAW	2.99	1
7	BINGO TALENTED	2.99	1
8	BLINDNESS GUN	4.99	1
9	CAMELOT VACATION	0.99	1
10	CHAINSAW UPTOWN	0.99	1
11	CHARADE DUFFEL	2.99	1
12	CHARIOTS CONSPIRACY	2.99	1
13	CHEAPER CLYDE	0.99	1
14	CINCINATTI WHISPERER	4.99	1
15	CITIZEN SHREK	0.99	1

61 row(s) fetched - 8r

9. Write a query that produces a count of the number of Action films(distinct titles, not copies of films)

```
use sakila;
select count(film_id)
from film_category
where
    category_id = 1;
```



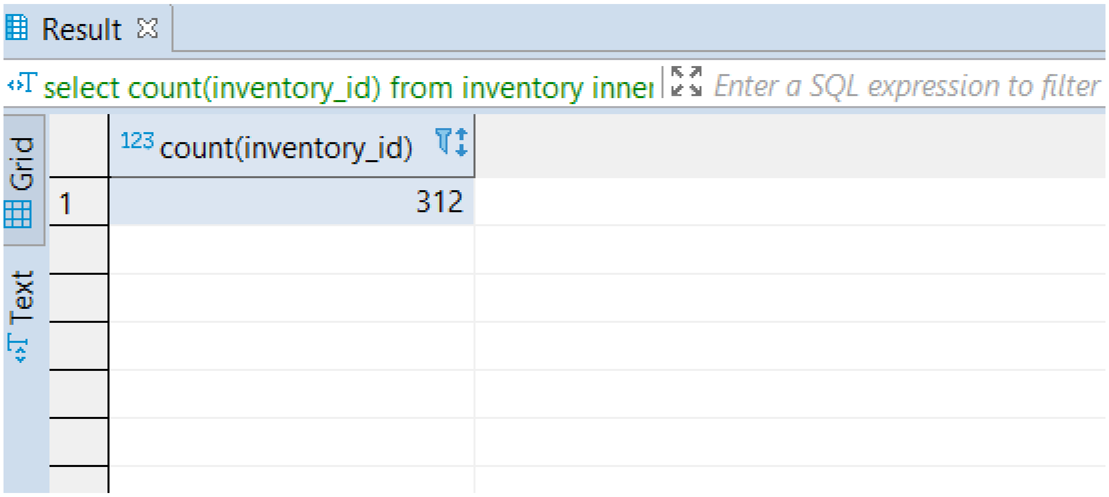
select count(film_id) from film_category where

	count(film_id)
1	64

10. Same as #9, but look at the inventory – so if there are 2 copies of a film it needs to be counted twice.

```
use sakila;
```

```
select count(inventory_id)
from inventory
inner join film_category on film_category.film_id = inventory.film_id
where
    inventory.film_id = film_category.film_id
    and film_category.category_id = 1;
```



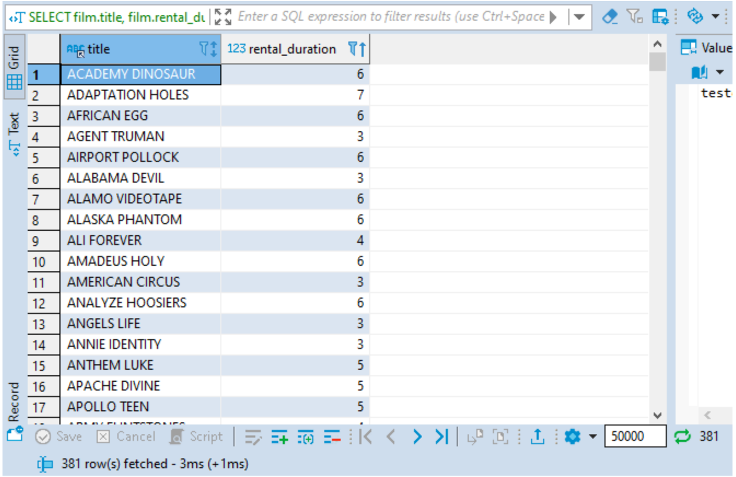
```
select count(inventory_id) from inventory inner
```

	count(inventory_id)
1	312

11. Write a query that produces the title and rental duration of all films that have a replacement cost between $15 and $23 (inclusive).

```
USE sakila;

SELECT
    film.title,
    film.rental_duration
FROM
    film
where
film.replacement_cost between 15 and 23;
```



SELECT film.title, film.rental_du

	title	rental_duration
1	ACADEMY DINOSAUR	6
2	ADAPTATION HOLES	7
3	AFRICAN EGG	6
4	AGENT TRUMAN	3
5	AIRPORT POLLOCK	6
6	ALABAMA DEVIL	3
7	ALAMO VIDEOTAPE	6
8	ALASKA PHANTOM	6
9	ALI FOREVER	4
10	AMADEUS HOLY	6
11	AMERICAN CIRCUS	3
12	ANALYZE HOOSIERS	6
13	ANGELS LIFE	3
14	ANNIE IDENTITY	3
15	ANTHEM LUKE	5
16	APACHE DIVINE	5
17	APOLLO TEEN	5

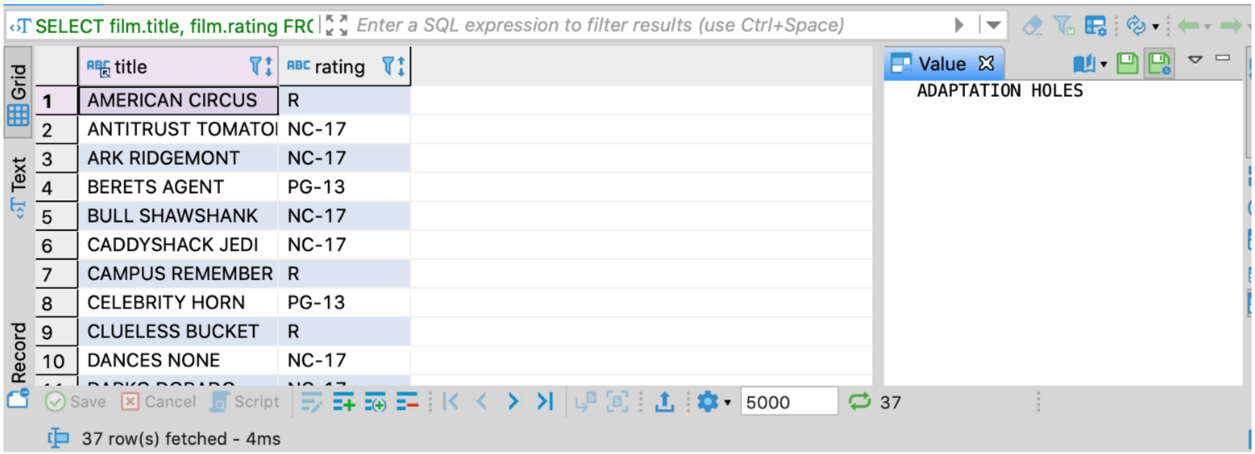
381 row(s) fetched - 3ms (+1ms)

381 Rows

12. Write a query that produces the title of every action film with a rating of PG-13, R, or NC-17.

```
USE sakila;

SELECT
    film.title,
    film.rating
FROM
    film,
    film_category
WHERE
    film_category.category_id = 1
    and film.film_id = film_category.film_id
    and (film.rating = "pg-13"
    or film.rating = "R"
    or film.rating = "NC-17");
```



SELECT film.title, film.rating FRO

	title	rating
1	AMERICAN CIRCUS	R
2	ANTITRUST TOMATO	NC-17
3	ARK RIDGEMONT	NC-17
4	BERETS AGENT	PG-13
5	BULL SHAWSHANK	NC-17
6	CADDYSHACK JEDI	NC-17
7	CAMPUS REMEMBER	R
8	CELEBRITY HORN	PG-13
9	CLUELESS BUCKET	R
10	DANCES NONE	NC-17

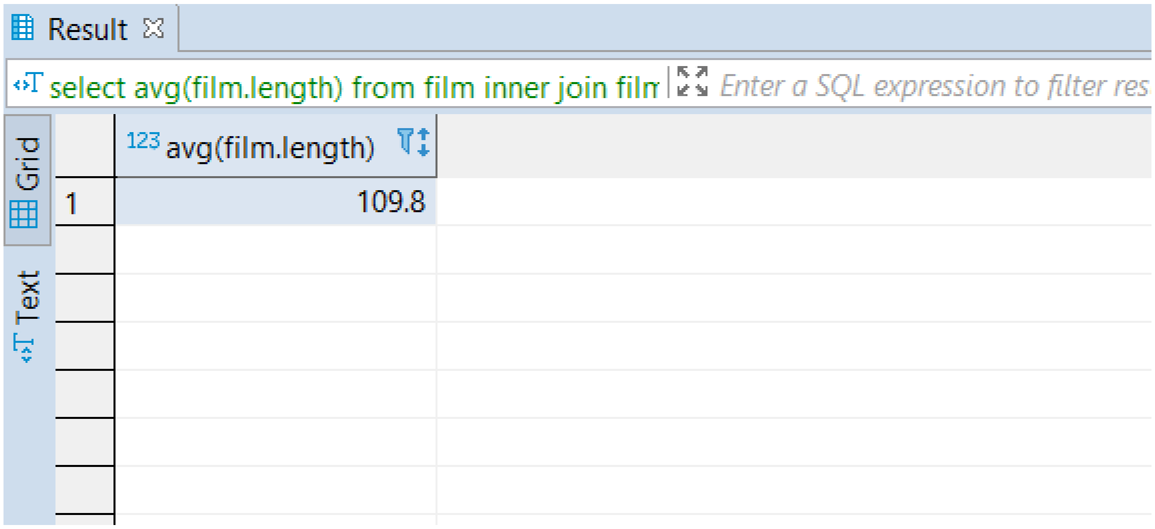
Value: ADAPTATION HOLES

37 row(s) fetched - 4ms

37 rows

13. Write a query that produces the average length of all Children movies.

```
use sakila;
select avg(film.length)
from film
inner join film_category on film_category.film_id = film.film_id
where
    film.film_id = film_category.film_id
    and film_category.category_id = 3;
```

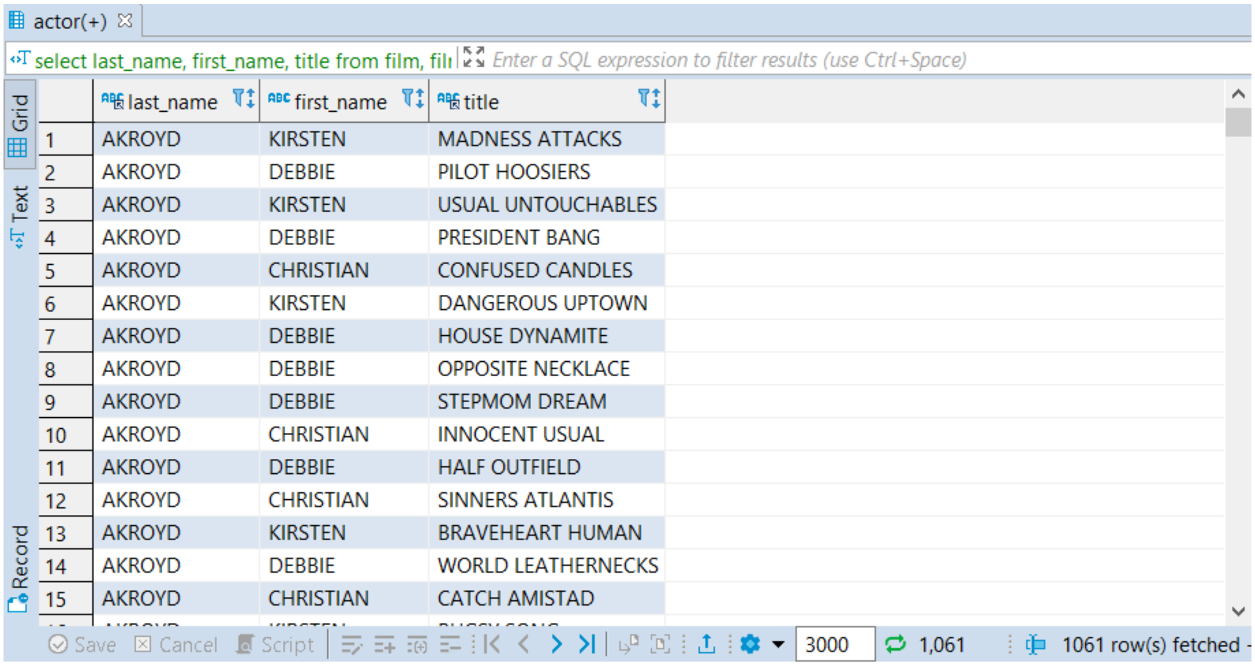


select avg(film.length) from film inner join film

	avg(film.length)
1	109.8

14. Write a query that produces the last name and first name and film title of all actors who are in Family, Foreign, or Horror films ordered by last name

```
use sakila;
select last_name, first_name, title
from film, film_category, category, film_actor, actor
where
    film.film_id = film_actor.film_id
    and film.film_id = film_category.film_id
    and film_actor.actor_id = actor.actor_id
    and film_category.category_id = category.category_id
    and (category.name = "Family" or category.name = "Foreign" or category.name =
"Horror")
order by last_name asc;
```



select last_name, first_name, title from film, fil

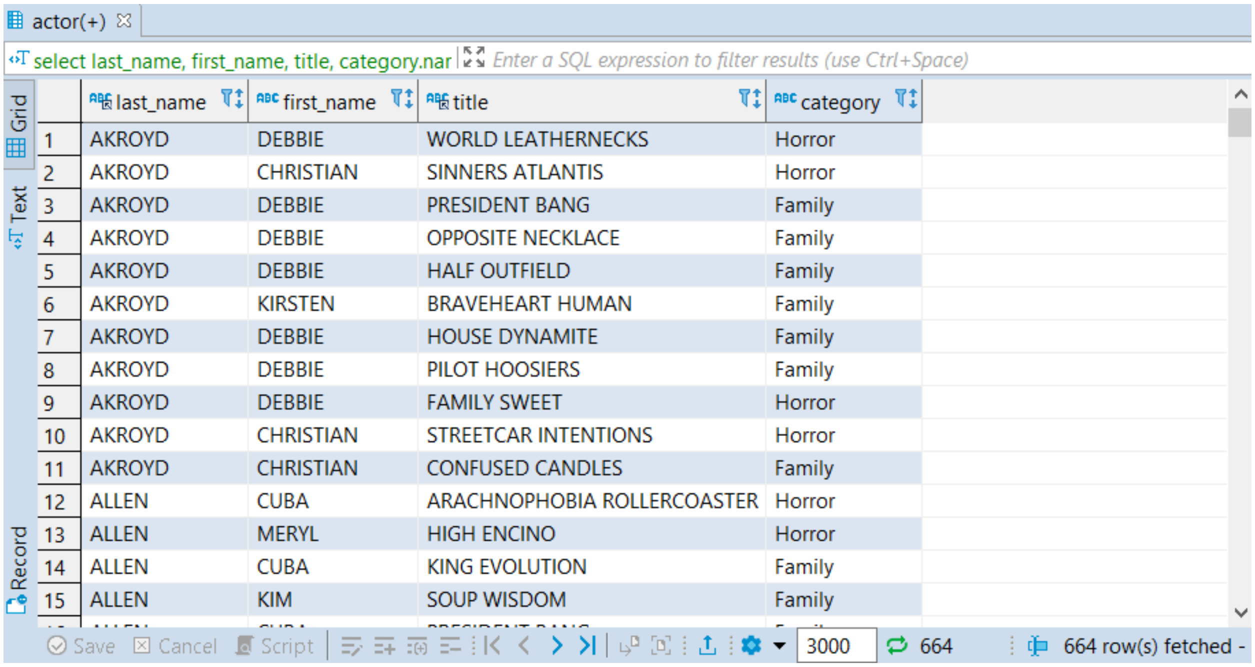
Enter a SQL expression to filter results (use Ctrl+Space)

	last_name	first_name	title
1	AKROYD	KIRSTEN	MADNESS ATTACKS
2	AKROYD	DEBBIE	PILOT HOOSIERS
3	AKROYD	KIRSTEN	USUAL UNTOUCHABLES
4	AKROYD	DEBBIE	PRESIDENT BANG
5	AKROYD	CHRISTIAN	CONFUSED CANDLES
6	AKROYD	KIRSTEN	DANGEROUS UPTOWN
7	AKROYD	DEBBIE	HOUSE DYNAMITE
8	AKROYD	DEBBIE	OPPOSITE NECKLACE
9	AKROYD	DEBBIE	STEPMOM DREAM
10	AKROYD	CHRISTIAN	INNOCENT USUAL
11	AKROYD	DEBBIE	HALF OUTFIELD
12	AKROYD	CHRISTIAN	SINNERS ATLANTIS
13	AKROYD	KIRSTEN	BRAVEHEART HUMAN
14	AKROYD	DEBBIE	WORLD LEATHERNECKS
15	AKROYD	CHRISTIAN	CATCH AMISTAD

1061 row(s) fetched -

15. Write a query that produces the last name and first name and film title and film category of every actor who is in either a Family movie OR a Horror movie ordered by last name. rename the category from “name” to “category” in your result table. (hint: “AS” keyword)

```
use sakila;
select last_name, first_name, title, category.name as "category"
from film, film_category, category, film_actor, actor
where
    film.film_id = film_actor.film_id
    and film.film_id = film_category.film_id
    and film_actor.actor_id = actor.actor_id
    and film_category.category_id = category.category_id
    and (category.name = "Family" or category.name = "Horror")
order by last_name asc;
```



select last_name, first_name, title, category.nar

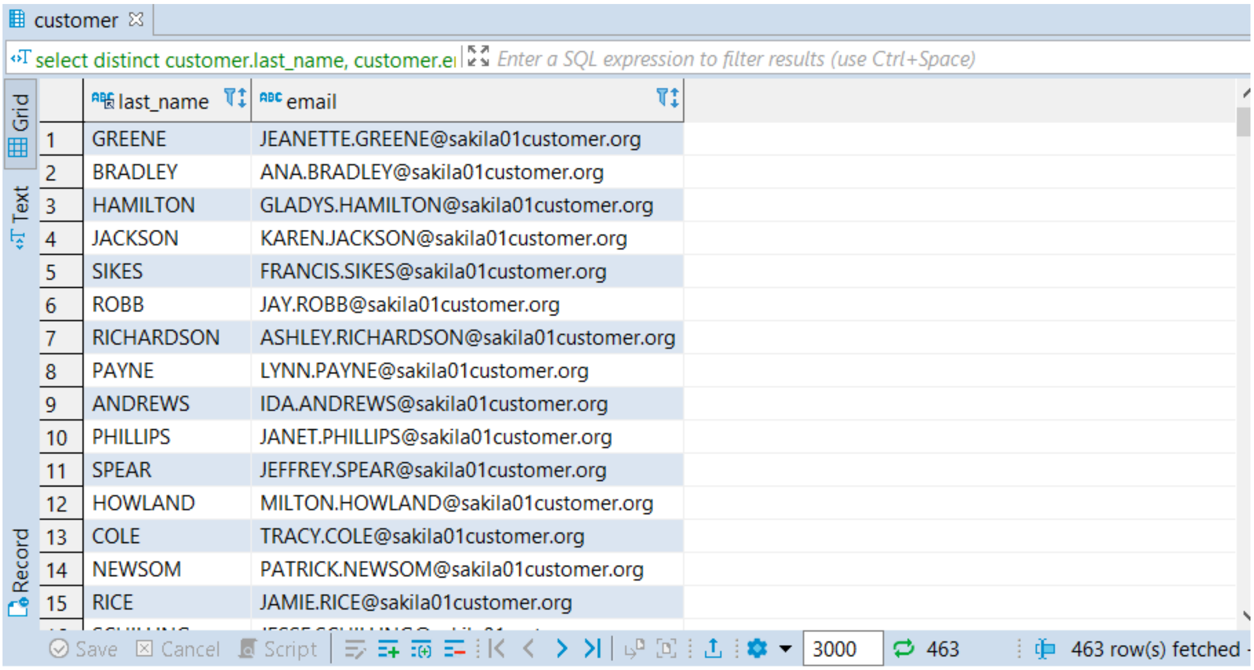
Enter a SQL expression to filter results (use Ctrl+Space)

	last_name	first_name	title	category
1	AKROYD	DEBBIE	WORLD LEATHERNECKS	Horror
2	AKROYD	CHRISTIAN	SINNERS ATLANTIS	Horror
3	AKROYD	DEBBIE	PRESIDENT BANG	Family
4	AKROYD	DEBBIE	OPPOSITE NECKLACE	Family
5	AKROYD	DEBBIE	HALF OUTFIELD	Family
6	AKROYD	KIRSTEN	BRAVEHEART HUMAN	Family
7	AKROYD	DEBBIE	HOUSE DYNAMITE	Family
8	AKROYD	DEBBIE	PILOT HOOSIERS	Family
9	AKROYD	DEBBIE	FAMILY SWEET	Horror
10	AKROYD	CHRISTIAN	STREETCAR INTENTIONS	Horror
11	AKROYD	CHRISTIAN	CONFUSED CANDLES	Family
12	ALLEN	CUBA	ARACHNOPHOBIA ROLLERCOASTER	Horror
13	ALLEN	MERYL	HIGH ENCINO	Horror
14	ALLEN	CUBA	KING EVOLUTION	Family
15	ALLEN	KIM	SOUP WISDOM	Family

664 row(s) fetched -

16. Write a query that produce the last name and email address of every customer who has rented a film starring NICK WAHLBERG or MATTHEW JOHANSSON or RITA REYNOLDS (we don't want to have duplicate rows returned for our query – there is a keyword you might need to use).

```
use sakila;
select distinct customer.last_name, customer.email
from customer, rental, inventory, film_actor, actor
where
    rental.customer_id = customer.customer_id
    and rental.inventory_id = inventory.inventory_id
    and inventory.film_id = film_actor.film_id
    and film_actor.actor_id = actor.actor_id
    and ((actor.first_name = 'Nick' and actor.last_name = 'Wahlberg') or
(actor.first_name = 'Matthew' and actor.last_name = 'Johansson') or
(actor.first_name = 'Rita' and actor.last_name = 'Reynolds'));
```

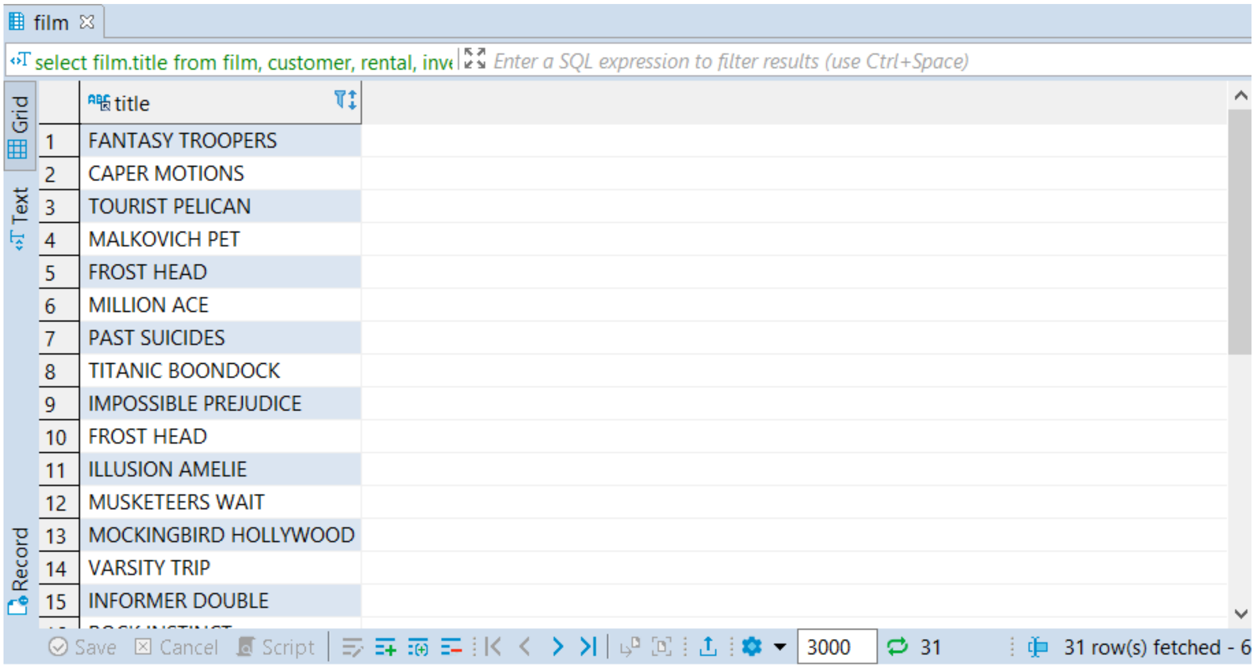


```
select distinct customer.last_name, customer.e
```

	last_name	email
1	GREENE	JEANETTE.GREENE@sakila01customer.org
2	BRADLEY	ANA.BRADLEY@sakila01customer.org
3	HAMILTON	GLADYS.HAMILTON@sakila01customer.org
4	JACKSON	KAREN.JACKSON@sakila01customer.org
5	SIKES	FRANCIS.SIKES@sakila01customer.org
6	ROBB	JAY.ROBB@sakila01customer.org
7	RICHARDSON	ASHLEY.RICHARDSON@sakila01customer.org
8	PAYNE	LYNN.PAYNE@sakila01customer.org
9	ANDREWS	IDA.ANDREWS@sakila01customer.org
10	PHILLIPS	JANET.PHILLIPS@sakila01customer.org
11	SPEAR	JEFFREY.SPEAR@sakila01customer.org
12	HOWLAND	MILTON.HOWLAND@sakila01customer.org
13	COLE	TRACY.COLE@sakila01customer.org
14	NEWSOM	PATRICK.NEWSOM@sakila01customer.org
15	RICE	JAMIE.RICE@sakila01customer.org

17. Write a query that produces the title of every film HOLLY FOX has rented.

```
use sakila;
select film.title
from film, customer, rental, inventory
where
    film.film_id = inventory.film_id
    and inventory.inventory_id = rental.inventory_id
    and rental.customer_id= customer.customer_id
    and (customer.first_name = 'Holly' and customer.last_name = 'Fox');
```

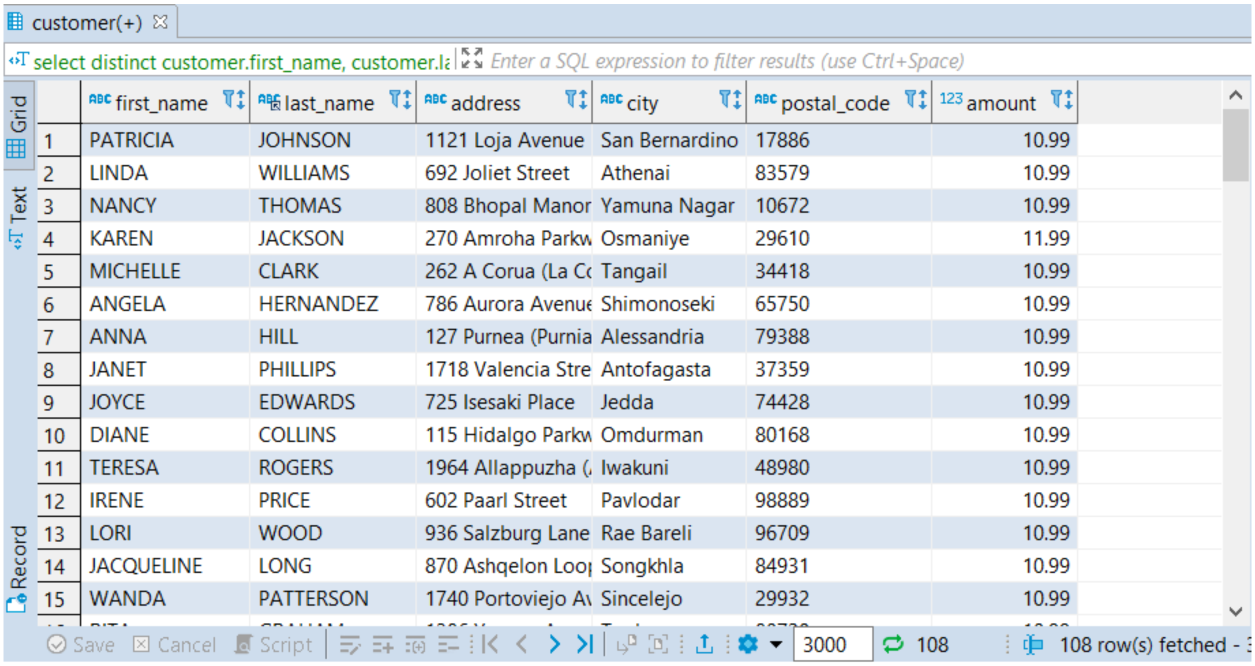


```
select film.title from film, customer, rental, inve
```

	title
1	FANTASY TROOPERS
2	CAPER MOTIONS
3	TOURIST PELICAN
4	MALKOVICH PET
5	FROST HEAD
6	MILLION ACE
7	PAST SUICIDES
8	TITANIC BOONDOCK
9	IMPOSSIBLE PREJUDICE
10	FROST HEAD
11	ILLUSION AMELIE
12	MUSKETEERS WAIT
13	MOCKINGBIRD HOLLYWOOD
14	VARSITY TRIP
15	INFORMER DOUBLE

18. Write a query that produces the first name, last name, address, city, postal code of every customer who made a payment between $10 and $12. Each customer should be listed only once.

```
use sakila;
select distinct customer.first_name, customer.last_name, address.address,
city.city, address.postal_code, payment.amount
from customer, address, city, payment
where
   (payment.amount >= 10 and payment.amount <= 12)
   and payment.customer_id = customer.customer_id
   and customer.address_id = address.address_id
   and address.city_id = city.city_id
```



select distinct customer.first_name, customer.la

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

	first_name	last_name	address	city	postal_code	amount
1	PATRICIA	JOHNSON	1121 Loja Avenue	San Bernardino	17886	10.99
2	LINDA	WILLIAMS	692 Joliet Street	Athenai	83579	10.99
3	NANCY	THOMAS	808 Bhopal Manor	Yamuna Nagar	10672	10.99
4	KAREN	JACKSON	270 Amroha Parkw	Osmaniye	29610	11.99
5	MICHELLE	CLARK	262 A Corua (La Co	Tangail	34418	10.99
6	ANGELA	HERNANDEZ	786 Aurora Avenue	Shimonoseki	65750	10.99
7	ANNA	HILL	127 Purnea (Purnia	Alessandria	79388	10.99
8	JANET	PHILLIPS	1718 Valencia Stre	Antofagasta	37359	10.99
9	JOYCE	EDWARDS	725 Isesaki Place	Jedda	74428	10.99
10	DIANE	COLLINS	115 Hidalgo Parkw	Omdurman	80168	10.99
11	TERESA	ROGERS	1964 Allappuzha (.	Iwakuni	48980	10.99
12	IRENE	PRICE	602 Paarl Street	Pavlodar	98889	10.99
13	LORI	WOOD	936 Salzburg Lane	Rae Bareli	96709	10.99
14	JACQUELINE	LONG	870 Ashqelon Loo	Songkhla	84931	10.99
15	WANDA	PATTERSON	1740 Portoviejo Av	Sincelejo	29932	10.99