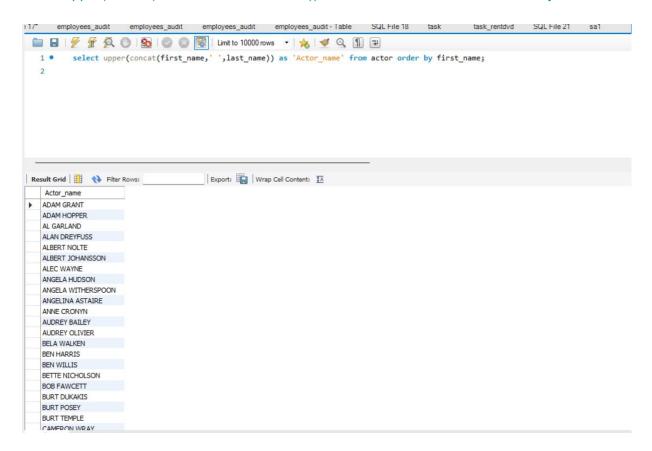
Assignment 1

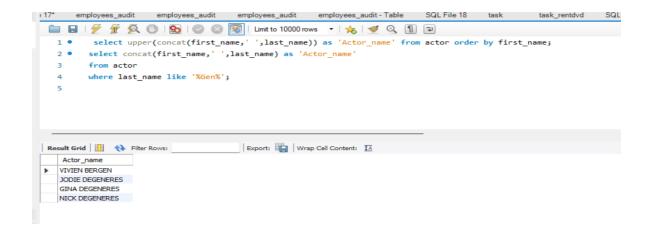
1. Display the first and last name of each actor in a single column in upper case letters in alphabetic order. Name the column Actor Name.

select upper(concat(first_name, '', last_name)) as 'Actor_name' from actor order by first_name;



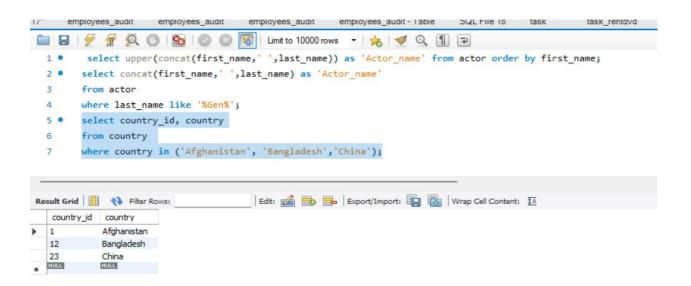
2. Find all actors whose last name contain the letters GEN:

select concat(first_name,' ',last_name) as 'Actor_name' from actor where last_name like '%Gen%';



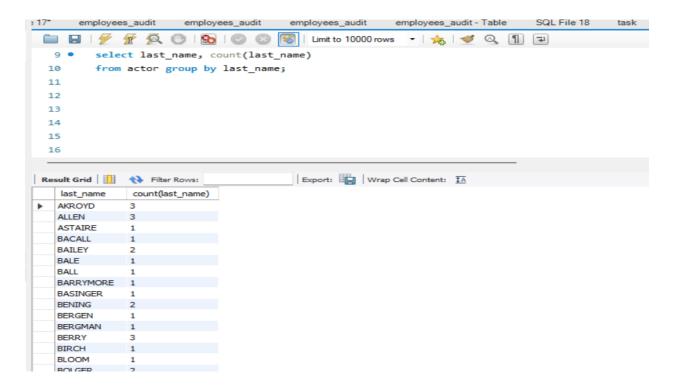
3. Using IN, display the country_id and country columns of the following countries: Afghanistan, Bangladesh, and China:

select country_id, country from country where country in ('Afghanistan', 'Bangladesh','China');



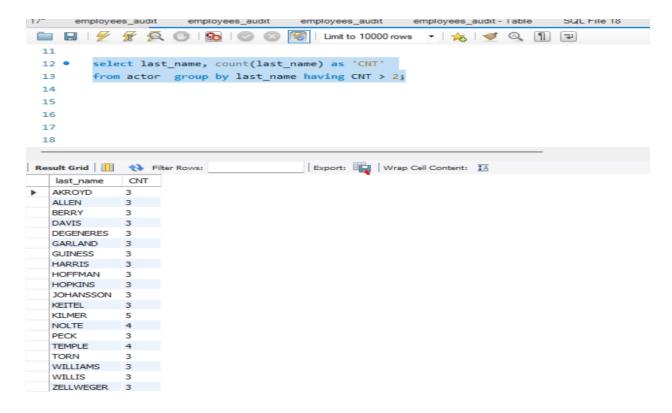
4. List the last names of actors, as well as how many actors have that last name.

select last_name, count(last_name) from actor group by last_name;



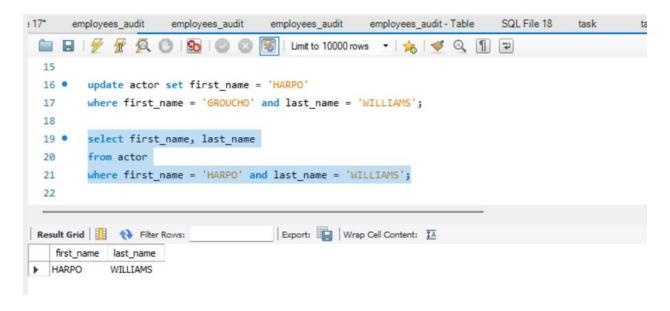
5. List last names of actors and the number of actors who have that last name, but only for names that are shared by at least two actors

select last_name, count(last_name) as 'CNT' from actor group by last_name having CNT > 2;



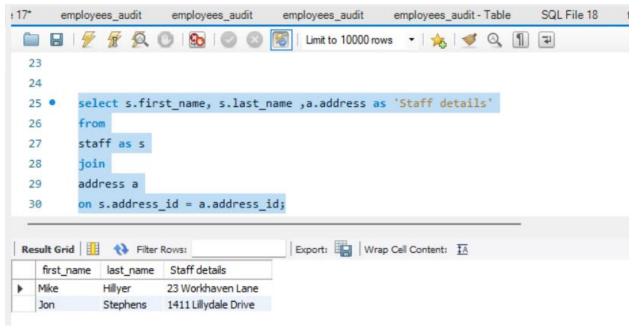
6. The actor HARPO WILLIAMS was accidentally entered in the actor table as GROUCHO WILLIAMS. Write a query to fix the record.

update actor set first_name = 'HARPO' where first_name = 'GROUCHO' and last_name = 'WILLIAMS';



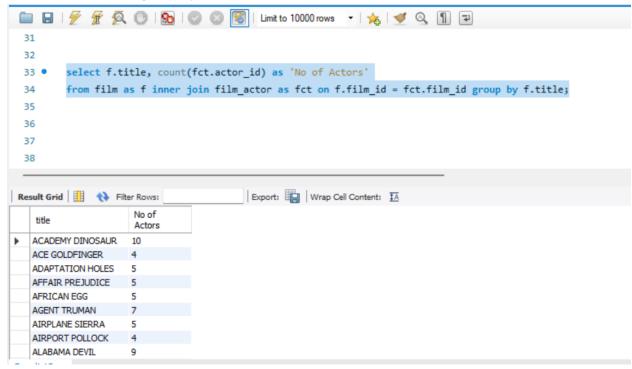
7. Use JOIN to display the first and last names, as well as the address, of each staff member. Use the tables staff and address:

select s.first_name, s.last_name ,a.address as 'Staff details' from staff as s join address a on s.address_id = a.address_id;

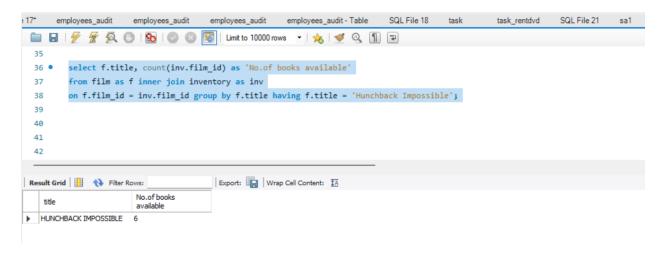


8. List each film and the number of actors who are listed for that film. Use tables film_actor and film. Use inner join.

select f.title, count(fct.actor_id) as 'No of Actors' from film as f inner join film_actor as fct on f.film_id = fct.film_id group by f.title;

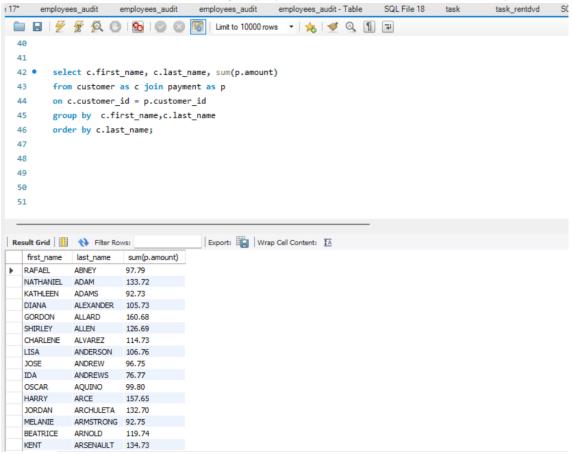


9. How many copies of the film Hunchback Impossible exist in the inventory system? select f.title, count(inv.film_id) as 'No.of books available' from film as f inner join inventory as inv on f.film_id = inv.film_id group by f.title having f.title = 'Hunchback Impossible';



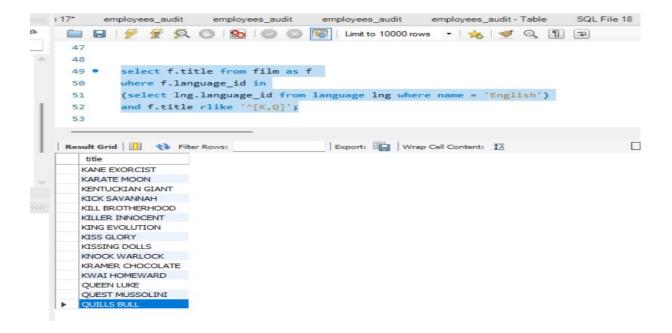
10. Using the tables payment and customer and the JOIN command, list the total paid by each customer. List the customers alphabetically by last name

select c.first_name, c.last_name, sum(p.amount) from customer as c join payment as p on c.customer id = p.customer id group by c.first_name,c.last_name order by c.last_name;

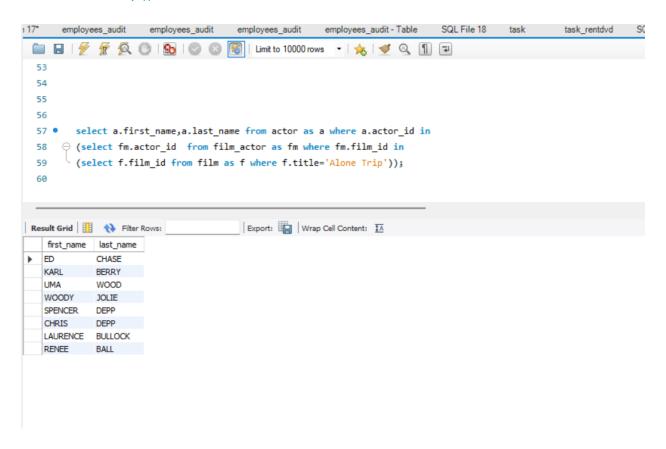


11. The music of Queen and Kris Kristofferson have seen an unlikely resurgence. As an unintended consequence, films starting with the letters κ and ϱ have also soared in popularity. Use subqueries to display the titles of movies starting with the letters κ and ϱ whose language is English.

select f.title from film as f where f.language_id in (select lng.language_id from language lng where name = 'English') and f.title rlike '^[K,Q]';

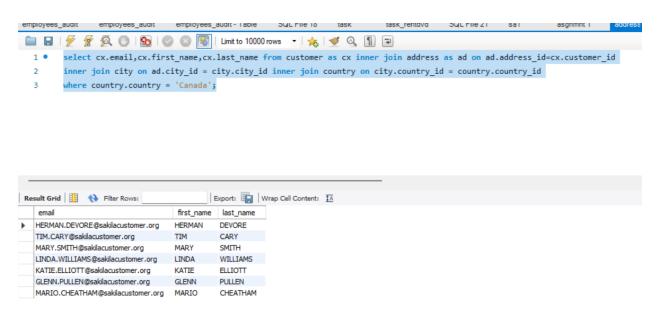


12. Use subqueries to display all actors who appear in the film Alone Trip. select a.first_name,a.last_name from actor as a where a.actor_id in (select fm.actor_id from film_actor as fm where fm.film_id in (select f.film_id from film as f where f.title='Alone Trip'));

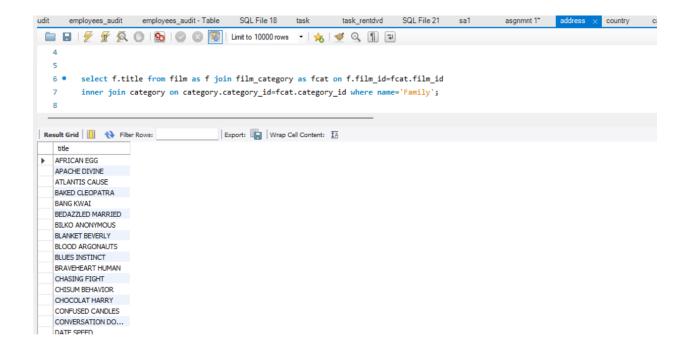


13. You want to run an email marketing campaign in Canada, for which you will need the names and email addresses of all Canadian customers. Use joins to retrieve this information.

select cx.email,cx.first_name,cx.last_name from customer as cx inner join address as ad on ad.address_id=cx.customer_id inner join city on ad.city_id = city.city_id inner join country on city.country_id = country.country_id where country.country = 'Canada';



14. Sales have been lagging among young families, and you wish to target all family movies for a promotion. Identify all movies categorized as family films. select f.title from film as f join film_category as fcat on f.film_id=fcat.film_id inner join category on category_id=fcat.category_id where name='Family';



15. Create a Stored procedure to get the count of films in the input category (IN category_name, OUT count)

delimiter \$\$

```
CREATE PROCEDURE pr_filmcnt(IN cat_name VARCHAR(255), OUT cnt INT)

BEGIN

SELECT COUNT(*) INTO cnt FROM film_category as fc

JOIN category c ON fc.category_id = c.category_id

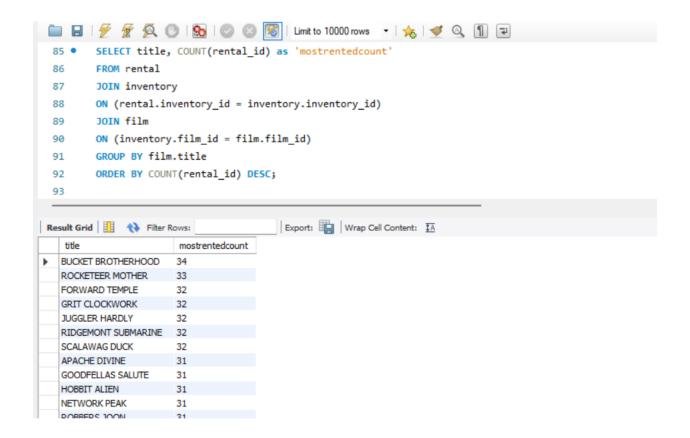
WHERE c.name = cat_name;

END $$
delimiter;
call pr_filmcnt('Family',@cnt);
select @cnt;
```

```
🚞 🔚 | 🥖 💯 👰 🕛 | 🚱 | 💿 🔞 👸 | Limit to 10000 rows 🔻 | 🜟 | 🥩 🔍 🗻 🖘
        delimiter $$
  2
  3 •
        CREATE PROCEDURE pr_filmcnt(IN cat_name VARCHAR(255), OUT cnt INT)
  5
           SELECT COUNT(*) INTO cnt FROM film_category as fc
           JOIN category c ON fc.category_id = c.category_id
  6
           WHERE c.name = cat_name;
  7
        END $$
  8
  9
        delimiter;
        call pr_filmcnt('Family',@cnt);
        select @cnt;
                                     Export: Wrap Cell Content: TA
@cnt
69
```

16. Display the most frequently rented movies in descending order.

```
select title, count(rental_id) as 'mostrentedcount' from rental join inventory on (rental.inventory_id = inventory.inventory_id) join film on (inventory.film_id = film.film_id) group by film.title order by count(rental_id) desc;
```



17. Write a query to display for each store its store ID, city, and country.

```
s.store_id, c.city, cn.country

FROM

store AS s

INNER JOIN

address AS ad ON s.address_id = ad.address_id

JOIN

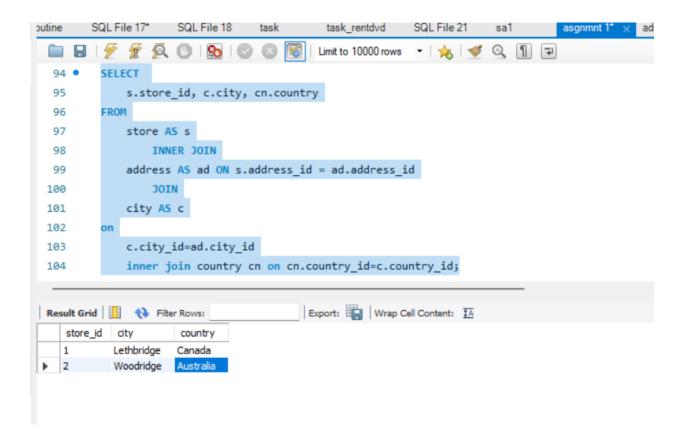
city AS c

on

c.city_id=ad.city_id

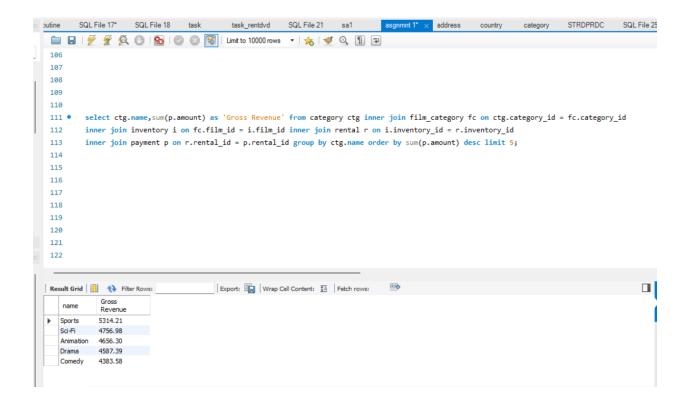
inner join country cn on cn.country_id=c.country_id;
```

SELECT



18. List the genres and its gross revenue.

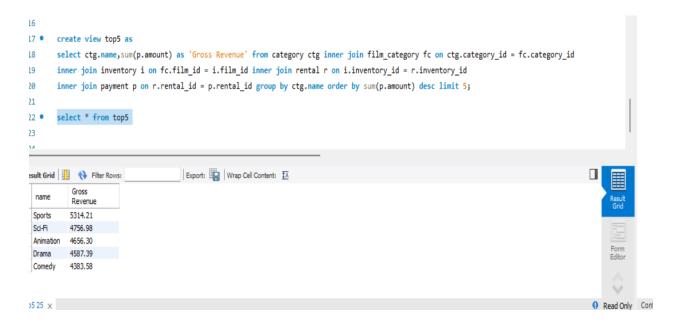
select ctg.name,sum(p.amount) as 'Gross Revenue' from category ctg inner join film_category fc on ctg.category_id = fc.category_id inner join inventory i on fc.film_id = i.film_id inner join rental r on i.inventory_id = r.inventory_id inner join payment p on r.rental_id = p.rental_id group by ctg.name order by sum(p.amount);



19. Create a View for the above query(18)

create view top5 as

select ctg.name,sum(p.amount) as 'Gross Revenue' from category ctg inner join film_category fc on ctg.category_id = fc.category_id inner join inventory i on fc.film_id = i.film_id inner join rental r on i.inventory_id = r.inventory_id inner join payment p on r.rental_id = p.rental_id group by ctg.name order by sum(p.amount) desc limit 5;



20. Select top 5 genres in gross revenue view.

select * from top5

