```sql
USE SAKILA;

DESCRIBE CUSTOMER;
DESCRIBE ADDRESS;
DESCRIBE CITY;
DESCRIBE COUNTRY;
SELECT * FROM FILM;
SELECT * FROM FILM_CATEGORY;
SELECT * FROM INVENTORY;
SELECT * FROM CATEGORY;
SELECT * FROM RENTAL;
SELECT * FROM CUSTOMER;
SELECT * FROM ADDRESS;
SELECT * FROM COUNTRY;




-- 1. Find out the PG-13 rated comedy movies.
SELECT FILM.TITLE, FILM.RATING, CATEGORY.NAME
FROM FILM
JOIN film_category ON FILM.film_id=film_category.film_id
JOIN CATEGORY ON film_category.category_id=category.category_id
WHERE category.name='Comedy' AND film.rating='PG-13';




-- 2. Find out the top 3 rented horror movies.
SELECT film.title, COUNT(rental.rental_id) AS rentals
FROM film
JOIN inventory ON film.film_id = inventory.film_id
JOIN rental ON inventory.inventory_id = rental.inventory_id
JOIN film_category ON FILM.film_id=film_category.film_id
JOIN CATEGORY ON film_category.category_id=category.category_id
WHERE category.name='Horror'
GROUP BY film.film_id
ORDER BY rentals DESC
LIMIT 3;




-- 3. Find out the list of customers from India who have rented sports movies
SELECT customer.first_name, customer.last_name, customer.address_id,film.title
FROM customer
JOIN rental ON customer.customer_id = rental.customer_id
JOIN inventory ON rental.inventory_id = inventory.inventory_id
JOIN film ON inventory.film_id = film.film_id
JOIN film_category ON FILM.film_id=film_category.film_id
JOIN CATEGORY ON film_category.category_id=category.category_id
WHERE customer.address_id IN (SELECT address.address_id FROM address
                                                    JOIN CITY ON address.city_id=city.city_id
                        JOIN country ON city.country_id=country.country_id
                    WHERE country = 'India')
```

```sql
        AND category.name = 'Sports';



-- 4. Find out the list of customers from Canada who have rented "NICK WAHLBERG" movies.
SELECT customer.first_name,customer.last_name,actor.first_name,actor.last_name FROM CUSTOMER
JOIN rental ON customer.customer_id=rental.customer_id
JOIN inventory ON rental.inventory_id=inventory.inventory_id
JOIN film_actor ON inventory.film_id=film_actor.film_id
JOIN actor ON film_actor.actor_id=actor.actor_id
WHERE actor.first_name='NICK' AND
          actor.last_name='WAHLBERG' AND
   customer.address_id IN (SELECT address.address_id FROM address
                                              JOIN CITY ON address.city_id=city.city_id
                 JOIN country ON city.country_id=country.country_id
                 WHERE country = 'Canada');


--  Find out the number of movies in which "SEAN WILLIAMS" acted.
SELECT COUNT(film.title) FROM FILM
JOIN film_actor ON film.film_id = film_actor.film_id
join actor on film_actor.actor_id=actor.actor_id
where actor.first_name='SEAN' AND actor.last_name='WILLIAMS';
```