**Assignment -2**

**Question 1:**

Retrieve the total number of rentals made in the Sakila database.

SELECT COUNT(\*) AS total\_rentals

FROM rental;

**Question 2:**

Find the average rental duration (in days) of movies rented from the Sakila database.

SELECT AVG(rental\_duration) AS avg\_rental\_duration

FROM film;

**Question 3:**

Display the first name and last name of customers in uppercase.

SELECT UPPER(first\_name) AS uppercase\_first\_name, UPPER(last\_name) AS uppercase\_last\_name

FROM customer;

**Question 4:**

Extract the month from the rental date and display it alongside the rental ID.

SELECT rental\_id, MONTH(rental\_date) AS rental\_month

FROM rental;

**Question 5:**

Retrieve the count of rentals for each customer (display customer ID and the count of rentals).

SELECT customer\_id, COUNT(rental\_id) AS rental\_count

FROM rental

GROUP BY customer\_id;

**Question 6:**

Find the total revenue generated by each store.

SELECT store\_id, SUM(amount) AS total\_revenue

FROM payment

GROUP BY store\_id;

**Question 8:**

Retrieve the names of all actors who have appeared in the film "Gone with the Wind."

SELECT actor.actor\_id, actor.first\_name, actor.last\_name

FROM actor

JOIN film\_actor ON actor.actor\_id = film\_actor.actor\_id

JOIN film ON film\_actor.film\_id = film.film\_id

WHERE film.title = 'Gone with the Wind';

**Question 1:**

Determine the total number of rentals for each category of movies.

SELECT film\_category.category\_id, COUNT(rental.rental\_id) AS total\_rentals

FROM rental

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

GROUP BY film\_category.category\_id;

**Question 2:**

Find the average rental rate of movies in each language.

SELECT language.name, AVG(film.rental\_rate) AS avg\_rental\_rate

FROM film

JOIN language ON film.language\_id = language.language\_id

GROUP BY language.name;

**Question 3:**

Retrieve the customer names along with the total amount they've spent on rentals.

SELECT customer.customer\_id, customer.first\_name, customer.last\_name, SUM(payment.amount) AS total\_spent

FROM customer

JOIN payment ON customer.customer\_id = payment.customer\_id

JOIN rental ON payment.rental\_id = rental.rental\_id

GROUP BY customer.customer\_id;

**Question 4:**

List the titles of movies rented by each customer in a particular city (e.g., 'London').

SELECT customer.first\_name, customer.last\_name, film.title

FROM customer

JOIN address ON customer.address\_id = address.address\_id

JOIN city ON address.city\_id = city.city\_id

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

WHERE city.city = 'London'

GROUP BY customer.customer\_id, film.title;

**Question 5:**

Display the top 5 rented movies along with the number of times they've been rented.

SELECT film.title, COUNT(rental.rental\_id) AS rental\_count

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 rental\_count DESC

LIMIT 5;

**Question 6:**

Determine the customers who have rented movies from both stores (store ID 1 and store ID 2).

SELECT customer.customer\_id, customer.first\_name, customer.last\_name

FROM customer

JOIN rental ON customer.customer\_id = rental.customer\_id

JOIN inventory ON rental.inventory\_id = inventory.inventory\_id

WHERE inventory.store\_id IN (1, 2)

GROUP BY customer.customer\_id

HAVING COUNT(DISTINCT inventory.store\_id) = 2;