

Query used for question 1

```
WITH t1 as (SELECT
                f.title film_title,
                c.name category_name,
                rental_id
            FROM film f
            JOIN film_category fc
            ON f.film_id = fc.film_id
            JOIN category c
            ON c.category_id = fc.category_id
            JOIN inventory i
            ON i.film_id = f.film_id
            JOIN rental r
            ON i.inventory_id = r.inventory_id
            WHERE c.name in ('Animation','Children','Classics','Comedy','Family','Music')
            ORDER BY 3 DESC)
SELECT film_title,
       category_name,
       COUNT(1)
FROM t1
GROUP BY 1, 2
ORDER BY 2, 1;
```

Query used for question 2

```
WITH t1 AS (
    SELECT
        film_id,
        title
    FROM film
),
t2 AS (
    SELECT
        inventory.film_id,
        COUNT(rental.rental_id) rental_count
    FROM inventory
    JOIN rental
    ON inventory.inventory_id = rental.inventory_id
    GROUP BY inventory.film_id
)
SELECT
```

```
        t1.title Film_Title,  
        t2.rental_count Total_Rentals  
FROM t1  
JOIN t2  
ON t1.film_id = t2.film_id  
ORDER BY t2.rental_count DESC;
```

Query used for question 3

```
SELECT  
        CONCAT(c.first_name, ' ', c.last_name) full_name,  
        SUM(p.amount),  
        COUNT(*)  
FROM customer c  
JOIN payment p  
ON c.customer_id = p.customer_id  
GROUP BY 1  
ORDER BY 2 DESC  
LIMIT 10;
```

Query used for question 4

```
SELECT
    CONCAT(c.first_name, ' ', c.last_name) AS full_name,
    COUNT(r.rental_id) AS total_rentals,
    RANK() OVER (ORDER BY COUNT(r.rental_id) DESC) AS rental_rank
FROM
    customer c
JOIN
    rental r ON c.customer_id = r.customer_id
GROUP BY
    c.customer_id
ORDER BY
    rental_rank;
```