

/*Query 1 – query used for first insight */

```
SELECT DISTINCT(f.title) film_title,
               c.name category_name,
               COUNT(r.*) OVER (PARTITION BY f.title ORDER BY f.title) rental_count
FROM film f
JOIN film_category fc
ON fc.film_id=f.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 r.inventory_id=i.inventory_id
WHERE c.name IN ('Animation','Children','Classics','Comedy','Family',
'Music')
ORDER BY 2;
```

/*Query 2 – query used for second insight */

```
SELECT t1.title,
       c.name category_name,
       t1.rental_duration,
       t1.standard_quartile
FROM (
  SELECT f.film_id,f.title,f.rental_duration,
         NTILE(4) OVER (ORDER BY f.rental_duration) as standard_quartile
  FROM film f
) t1
JOIN film_category fc
ON fc.film_id=t1.film_id
JOIN category c
ON c.category_id=fc.category_id
WHERE c.name IN ('Animation','Children','Classics','Comedy','Family',
'Music')
ORDER BY 3,1;
```

/*Query 3 – query used for third insight */

```
SELECT DATE_PART('month', r.rental_date) rental_month,
       DATE_PART('year', r.rental_date) rental_year,
       s.store_id,
       COUNT(*) rental_count
FROM rental r
JOIN staff sf
ON sf.staff_id=r.staff_id
JOIN store s
ON sf.store_id=s.store_id
GROUP BY 1,2,3
ORDER BY 4 DESC;
```

/*Query 4– query used for fourth insight */

```
WITH t1 as (
    SELECT c.customer_id,
           CONCAT(c.first_name, ' ',c.last_name) full_name,
           SUM(p.amount) total_amount
    FROM customer c
    JOIN payment p
    ON p.customer_id=c.customer_id
    GROUP BY 1
    ORDER BY 3 DESC
    LIMIT 10)

SELECT DATE_TRUNC('month',payment_date) payment_monthly,
       t1.full_name,
       COUNT(payment_date),
       SUM(p.amount) payment_sum
FROM payment p
JOIN t1
ON t1.customer_id=p.customer_id
GROUP BY 1,2
ORDER BY 2;
```