

# Questions and Queries

## Question 1:

**Which categories of movies that families watch?**

**the query 1:**

```
SELECT f.title,
       c.NAME,
       Count(r.rental_id) AS Rental_Count
FROM   category AS c
       JOIN film_category AS fc
         ON c.category_id = fc.category_id
       JOIN film AS f
         ON fc.film_id = f.film_id
       JOIN inventory AS i
         ON i.film_id = f.film_id
       JOIN rental AS r
         ON r.inventory_id = i.inventory_id
WHERE  NAME IN ( 'Animation', 'Children', 'Classics',
                 'Comedy',
                 'Family', 'Music' )
GROUP BY 1,
          2
ORDER BY 2,
          1;
```

## Question 2:

**how the length of rental duration of these family-friendly movies compares to the duration that all movies are rented for?**

**the query 2:**

```

SELECT f.title,
       c.NAME                                category,
       f.rental_duration,
       Ntile(4)
         OVER (
           ORDER BY f.rental_duration) AS Standard_Quartile
FROM   category AS c
JOIN   film_category AS fc
      ON c.category_id = fc.category_id
JOIN   film AS f
      ON fc.film_id = f.film_id
WHERE  c.NAME IN ( 'Animation', 'Children', 'Classics',
                  'Comedy',
                  'Family', 'Music' )
ORDER BY 3

```

### Question 3:

Finally, provide a table with the family-friendly film category, each of the quartiles, and the corresponding count of movies within each combination of film category for each corresponding rental duration category. The resulting table should have three columns:

- Category
- Rental length category
- Count

### the query 3:

```

WITH table1

```

```

        AS (SELECT f.title,
                   c.NAME,
                   f.rental_duration,
                   Ntile(4)
                   OVER (
                       ORDER BY rental_duration) AS Stan
dard_Quartile
        FROM      category AS c
        JOIN film_category AS fc
            ON c.category_id = fc.category_id
        JOIN film AS f
            ON f.film_id = fc.film_id
        WHERE c.NAME IN ( 'Animation', 'Children',
                          'Classics', 'Comedy',
                          'Family', 'Music' ))
SELECT NAME,
       standard_quartile,
       Count(rental_duration)
FROM   table1
GROUP BY 1,
         2
ORDER BY 1,
         2;

```

## Question 4:

**What are the 10 longest film categories by running time?**

**query 4:**

```

SELECT c.name,
       Max(length)
FROM   film AS f
       JOIN film_category AS fc
           ON f.film_id = fc.film_id
       JOIN category AS c
           ON fc.category_id = c.category_id
GROUP BY c.name
ORDER BY Max(length) DESC

```

```
LIMIT 10;
```