/\* Project 1 \*/

/\* Query 1 -the query used for the first insight \*/

WITH family\_rental\_table

AS (SELECT f.title film\_title,

c.name category\_name,

r.rental\_date rent\_date

FROM film f

JOIN inventory inv

ON f.film\_id = inv.film\_id

JOIN film\_category fc

ON f.film\_id = fc.film\_id

JOIN category c

ON fc.category\_id = c.category\_id

JOIN rental r

ON inv.inventory\_id = r.inventory\_id

WHERE c.name IN ('Animation', 'Children', 'Classics',

'Comedy', 'Family', 'Music'))

SELECT film\_title,

category\_name,

COUNT(rent\_date) AS rental\_count

FROM family\_rental\_table

GROUP BY 1,

2

ORDER BY 2,

1;

/\* Query 2, the query used for the second insight \*/

SELECT f.title,

c.name,

f.rental\_duration,

NTILE(4) OVER (ORDER BY rental\_duration) AS standard\_quartile

FROM film f

JOIN film\_category fc

ON f.film\_id = fc.film\_id

JOIN category c

ON fc.category\_id = c.category\_id

WHERE c.name IN ('Animation', 'Children', 'Classics',

'Comedy', 'Family', 'Music')

GROUP BY 1,

2,

3

ORDER BY 4,

1;

/\* Query 3, the query used for the third insight \*/

SELECT cat\_name,

rent\_duration,

COUNT(\*) count\_of\_movies

FROM (SELECT f.title film\_title,

c.name cat\_name,

f.rental\_duration rent\_duration,

NTILE(4) OVER (ORDER BY rental\_duration) AS standard\_quartile

FROM film f

JOIN film\_category fc

ON f.film\_id = fc.film\_id

JOIN category c

ON fc.category\_id = c.category\_id

WHERE c.name IN ('Animation', 'Children', 'Classics',

'Comedy', 'Family', 'Music')

GROUP BY 1,

2,

3) sub\_q

GROUP BY 1,

2

ORDER BY 1,

2;

/\* Query 4, the query used for the fourth insight \*/

WITH monthly\_payments\_table

AS (SELECT CONCAT(c.first\_name || ' ' || c.last\_name) AS full\_name,

p.amount payment\_amount,

DATE\_TRUNC('month',p.payment\_date) what\_month

FROM customer c

JOIN payment p

ON c.customer\_id = p.customer\_id

ORDER BY 1),

highest\_payments\_table

AS (SELECT CONCAT(c.first\_name || ' ' || c.last\_name) AS pay\_full\_name,

SUM(p.amount)

FROM customer c

JOIN payment p

ON c.customer\_id = p.customer\_id

GROUP BY 1

ORDER BY 2 DESC

LIMIT 10)

SELECT monthly\_payments\_table.what\_month,

monthly\_payments\_table.full\_name,

COUNT(\*) AS count\_payments,

SUM(monthly\_payments\_table.payment\_amount)

FROM monthly\_payments\_table

JOIN highest\_payments\_table

ON monthly\_payments\_table.full\_name = highest\_payments\_table.pay\_full\_name

GROUP BY 2,

1

ORDER BY 2,

1,

4;