**QUESTION 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 |
|  | AND c.name IN ('Animation', 'Children', 'Classics', 'Comedy', 'Family', 'Music') |
|  |  |
|  | JOIN film AS f |
|  | ON f.film\_id = fc.film\_id |
|  |  |
|  | JOIN inventory AS i |
|  | ON f.film\_id = i.film\_id |
|  |  |
|  | JOIN rental AS r |
|  | ON i.inventory\_id = r.inventory\_id |
|  | GROUP BY 1, 2 |
|  | ORDER BY 2, 1; |

**QUESTION 2**

SELECT \*,

NTILE(4) OVER(ORDER BY t1.rental\_duration) AS standard\_quartile

FROM (SELECT f.title,

c.name,

f.rental\_duration

FROM category AS c

JOIN film\_category AS fc

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

AND c.name IN ('Animation', 'Children', 'Classics', 'Comedy', 'Family', 'Music')

JOIN film AS f

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

ORDER BY 2, 1) t1;

**QUESTION 3**

SELECT t.name,

t.standard\_quartile,

COUNT(\*)

FROM (SELECT c.name,

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

AND c.name IN ('Animation', 'Children', 'Classics', 'Comedy', 'Family', 'Music')

JOIN film AS f

ON f.film\_id = fc.film\_id) AS t

GROUP BY 1, 2

ORDER BY 1, 2;

**QUESTION 4**

|  |
| --- |
| SELECT DATE\_PART('month', r1.rental\_date) AS rental\_month, |
|  | DATE\_PART('year', r1.rental\_date) AS rental\_year, |
|  | ('Store ' || s1.store\_id) AS store, |
|  | COUNT(\*) |
|  | FROM store AS s1 |
|  | JOIN staff AS s2 |
|  | ON s1.store\_id = s2.store\_id |
|  |  |
|  | JOIN rental r1 |
|  | ON s2.staff\_id = r1.staff\_id |
|  | GROUP BY 1, 2, 3 |
|  | ORDER BY 2, 1; |