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1  /* Query 1 – query used for first insight */
2  SELECT DISTINCT(f.title) film_title,
3         c.NAME AS category_name,
4         COUNT(r.rental_date) OVER (PARTITION BY f.title
5                                     ORDER BY f.title) AS rental_count
6  FROM film f
7  JOIN film_category fc ON f.film_id = fc.film_id
8  JOIN category c ON fc.category_id = c.category_id
9  JOIN inventory i ON f.film_id = i.film_id
10 JOIN rental r ON i.inventory_id = r.inventory_id
11 WHERE  c.name IN ('Animation', 'Children', 'Classics', 'Comedy',
12                   • 'Family', 'Music')
13 ORDER BY category_name ASC,
14           f.title ASC,
15           rental_count DESC;
16 /* Query 2 – query used for secound insight */
17 SELECT category_name,
18        standard_quartile,
19        COUNT(*)
20 FROM
21     (SELECT film_title,
22            category_name,
23            rental_duration,
24            NTILE(3) OVER (
25                            ORDER BY rental_duration) AS
26            • standard_quartile
27 FROM
28     (SELECT f.title film_title,
29            c.name category_name,
30            f.rental_duration rental_duration
31 FROM film f
32 JOIN film_category fc ON f.film_id = fc.film_id
33 JOIN category c ON fc.category_id = c.category_id
34 /* Only family friendly films */
35 WHERE c.name = 'Animation'
36        OR c.name = 'Children'
37        OR c.name = 'Classics'
38        OR c.name = 'Comedy'
39        OR c.name = 'Family'
40        OR c.name = 'Music') t1
41 ORDER BY rental_duration) t2
42 GROUP BY 1,
43          2
44 ORDER BY 1,
45          2;
46 /* Query 3 – query used for thirdly insight */
47 SELECT DATE_PART('month', r.rental_date) AS r_month,
48        DATE_PART('year', r.rental_date) AS r_year,
49        sto.store_id,
50        COUNT(*) AS r_count

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49 FROM rental r
50 JOIN payment p ON r.rental_id = p.rental_id
51 JOIN staff sta ON p.staff_id = sta.staff_id
52 JOIN store sto ON sta.store_id = sto.store_id
53 GROUP BY r_month,
54           r_year,
55           sto.store_id
56 ORDER BY r_count, r_year DESC;
57 /* Query 4 – query used for fourth insight */
58 SELECT DISTINCT a.first_name || ' ' || a.last_name AS full_name,
59                Date_trunc('day', p.payment_date) AS payment_day,
60                SUM(p.amount) OVER (PARTITION BY a.first_name || ' '
61                •                || a.last_name
62                                     ORDER BY date_trunc('day',
63                •                p.payment_date)) AS
64                •                cumulate_uver_time
65 /* Data reqzest */
66 FROM actor a
67 JOIN film_actor fa ON a.actor_id = fa.actor_id
68 JOIN film f ON fa.film_id = f.film_id
69 JOIN inventory i ON f.film_id = i.film_id
70 JOIN rental r ON i.inventory_id = r.inventory_id
71 JOIN payment p ON r.customer_id = p.customer_id
72 /**/
73 JOIN /* First 10 */
74   (SELECT a.first_name || ' ' || a.last_name AS full_name,
75        SUM(p.amount) AS total_revenue
76   /* Data reqzest */
77   FROM actor a
78   JOIN film_actor fa ON a.actor_id = fa.actor_id
79   JOIN film f ON fa.film_id = f.film_id
80   JOIN inventory i ON f.film_id = i.film_id
81   JOIN rental r ON i.inventory_id = r.inventory_id
82   JOIN payment p ON r.customer_id = p.customer_id
83   /**/
84   GROUP BY 1
85   ORDER BY 2 DESC
86   LIMIT 10) sub1 ON sub1.full_name = a.first_name || ' ' ||
87   •   a.last_name
88 ORDER BY 1
89

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