|  |  |  |
| --- | --- | --- |
| Query 1/\* | | |
|  | | |  | |
|  | | |  | |
|  | | |  | |
|  | | |  | |
|  | | | WITH title\_category AS( | |
|  | | |  | |
|  | | | SELECT f.film\_id, f.title AS film\_title, cat.name AS category\_name | |
|  | | |  | |
|  | | | FROM film f | |
|  | | |  | |
|  | | | JOIN film\_category fc | |
|  | | |  | |
|  | | | ON f.film\_id = fc.film\_id | |
|  | | |  | |
|  | | | JOIN category cat | |
|  | | |  | |
|  | | | ON cat.category\_id = fc.category\_id | |
|  | | |  | |
|  | | | ORDER BY 2,3) , | |
|  | | |  | |
|  | | |  | |
|  | | |  | |
|  | | |  | |
|  | | | rent\_count AS ( | |
|  | | |  | |
|  | | | SELECT f.film\_id, COUNT(\*) AS rental\_count | |
|  | | |  | |
|  | | | FROM film f | |
|  | | |  | |
|  | | | JOIN inventory inv | |
|  | | |  | |
|  | | | ON inv.film\_id = f.film\_id | |
|  | | |  | |
|  | | | JOIN rental r | |
|  | | |  | |
|  | | | ON inv.inventory\_id = r.inventory\_id | |
|  | | |  | |
|  | | | GROUP BY 1) | |
|  | | |  | |
|  | | |  | |
|  | | |  | |
|  | | |  | |
|  | | | SELECT film\_title , category\_name , rental\_count | |
|  | | |  | |
|  | | | FROM title\_category tc | |
|  | | |  | |
|  | | | JOIN rent\_count rc | |
|  | | |  | |
|  | | | ON tc.film\_id = rc.film\_id | |
|  | | |  | |
|  | | | ORDER BY 2,1 | |
| \*Query 2/\* | | | |
|  | | | |  |
|  | | | |  |
|  | | | |  |
|  | | | |  |
|  | | | | SELECT film.title , cat.name ,film.rental\_duration, |
|  | | | |  |
|  | | | | NTILE(4) OVER (ORDER BY film.rental\_duration) AS standard\_quartile |
|  | | | |  |
|  | | | | FROM film |
|  | | | |  |
|  | | | | JOIN film\_category fc |
|  | | | |  |
|  | | | | ON film.film\_id = fc.film\_id |
|  | | | |  |
|  | | | | JOIN category cat |
|  | | | |  |
|  | | | | ON cat.category\_id = fc.category\_id |
|  | | | |  |
|  | | | | WHERE cat.name IN ('Animation', 'Children', 'Classics', 'Comedy', 'Family', 'Music') |
|  | | | |  |
|  | | | | ORDER BY 3 |
| \*Query 3/\* | |
|  | |  | | |
|  | |  | | |
|  | |  | | |
|  | |  | | |
|  | | WITH film\_quartile AS ( | | |
|  | |  | | |
|  | | SELECT film.title , cat.name ,film.rental\_duration, | | |
|  | |  | | |
|  | | NTILE(4) OVER (ORDER BY film.rental\_duration) AS standard\_quartile | | |
|  | |  | | |
|  | | FROM film | | |
|  | |  | | |
|  | | JOIN film\_category fc | | |
|  | |  | | |
|  | | ON film.film\_id = fc.film\_id | | |
|  | |  | | |
|  | | JOIN category cat | | |
|  | |  | | |
|  | | ON cat.category\_id = fc.category\_id | | |
|  | |  | | |
|  | | WHERE cat.name IN ('Animation', 'Children', 'Classics', 'Comedy','Family', 'Music') | | |
|  | |  | | |
|  | | ORDER BY 3 ) | | |
|  | |  | | |
|  | |  | | |
|  | |  | | |
|  | |  | | |
|  | | SELECT fq.name, fq.standard\_quartile, COUNT(\*) | | |
|  | |  | | |
|  | | FROM film\_quartile fq | | |
|  | |  | | |
|  | | GROUP BY 1,2 | | |
|  | |  | | |
|  | | ORDER BY 1,2 | | |
| Query 4/\* |
|  |  | | | |
|  |  | | | |
|  |  | | | |
|  |  | | | |
|  | SELECT rental\_year, rental\_month, store\_id, COUNT(rental\_month) | | | |
|  |  | | | |
|  | FROM ( | | | |
|  |  | | | |
|  | SELECT DATE\_PART('year',rental\_date) AS rental\_year, | | | |
|  |  | | | |
|  | DATE\_PART('month',rental\_date) AS rental\_month, store.store\_id | | | |
|  |  | | | |
|  | FROM rental | | | |
|  |  | | | |
|  | JOIN staff | | | |
|  |  | | | |
|  | ON rental.staff\_id = staff.staff\_id | | | |
|  |  | | | |
|  | JOIN store | | | |
|  |  | | | |
|  | ON staff.store\_id = store.store\_id | | | |
|  |  | | | |
|  | ) rent\_date | | | |
|  |  | | | |
|  | GROUP BY 1,2,3 | | | |
|  |  | | | |
|  | ORDER BY 4 DESC | | | |