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Question 1: What is the most popular movie genre by the total number of rentals?
Ans 1:
select
name as genre,
count(distinct f.film_id) as movie_cnt
cineflix.category c JOIN cineflix.film_category fc ON c.category_id =
fc.category_id
                   JOIN cineflix.film f ON f.film_id = fc.film_id
                   JOIN cineflix.inventory i ON i.film_id = f.film_id
                   JOIN cineflix.rental r ON r.inventory_id = i.inventory_id
group by name
order by movie_cnt desc
limit 1;
Question 2: Get a list of all customers who have rented more films than the average
number of rentals.
Ans 2:
select t1.customer_id from
select
customer_id,
count(rental_id) as rental_cnt
from cineflix.rental
group by customer_id
) t1
JOIN
select round(avg(cnt),2) as avg_rent from
select customer_id,count(rental_id) as cnt
from cineflix.rental
group by customer_id
)
)t2
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ON t1.rental_cnt > t2.avg_rent;
#subquery
select
customer_id,
count(rental_id) as rental_cnt
from cineflix.rental
group by customer_id
having rental_cnt >
(
select round(avg(cnt),2) as avg_rent from
select customer_id,count(rental_id) as cnt
from cineflix.rental
group by customer_id
)
);
Question 3: List all customers and the total amount they have spent on rentals,
including customers who have never rented a film.
select
c.customer_id,
ifnull(ROUND(sum(amount), 2), 0.0) as total_amount
from cineflix.customer c LEFT JOIN
cineflix.payment p
ON c.customer_id = p.customer_id
group by c.customer_id
order by 2 desc;
Question 4: List all film categories along with the number of films in each
category, including categories with no films.
select
c.category_id,
name as category_name,
 count(f.film_id) as num_of_films
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from cineflix.category c
LEFT JOIN
cineflix.film_category fc ON fc.category_id = c.category_id
cineflix.film f ON fc.film_id = f.film_id
group by category_id,name
order by num_of_films desc;
select ca.category_id, ca.name, COUNT(fc.film_id) as NO_OF_Films from
cineflix.category ca
LEFT JOIN cineflix.film_category fc USING (category_id)
group by ca.name, ca.category_id
order by NO_OF_Films desc;
Question 5: List all films with rental rates higher than the average rental rate.
select
f.film id,
f.rental rate,
tbl.avg rental
from (
select
avg(rental rate) as avg rental
from cineflex.film) tbl
join cineflex.film f
on tbl.avg rental < f.rental rate;</pre>
```