1. Display the film category id and the number of films that belong to each category. Then return the results, sorted by the number of the films that belong to each category

Select a.category\_id, count(a.film\_id) as NumberOfFilms

from film\_category a

group by a.category\_id

order by NumberOfFilms

2. Display the film category id that contain more than 50 films. Then return the results, sorted by the number of the films that belong to each category

select b.name, count(a.film\_id) as NumberOfFilms

from film\_category a

inner join category b

on a.category\_id=b.category\_id

group by a.category\_id

having NumberOfFilms>49

order by NumberOfFilms

3. Display the film categories (film\_category\_id) where the average difference between the film replacement cost and the rental rate larger than 17?

select a.category\_id, avg(b.replacement\_cost - b.rental\_rate) dif

from sakila.film\_category a

inner join sakila.film b

on a.film\_id=b.film\_id

group by a.category\_id

having dif> 17