use sakila;

**/\***

**Questão 1)**

**Letra A**

**\*/**

SELECT

f.title AS film\_name,

i.film\_id AS id\_film,

count(r.rental\_id) AS Qnt\_alugueis

FROM rental r

INNER JOIN inventory i on i.inventory\_id=r.inventory\_id

INNER JOIN film f on f.film\_id=i.film\_id

GROUP BY 1

ORDER BY 3 desc;

**/\***

**letra B**

**\*/**

SELECT

f.title AS film\_name,

i.film\_id AS id\_film,

count(i.film\_id) AS Qnt\_disponiveis

FROM inventory i

INNER JOIN film f on f.film\_id=i.film\_id

GROUP by 1

ORDER by 3 desc;

**/\***

**letra C**

**\*/**

create temporary table soma\_percentual as( #fiz como tabela temporaria para poder conferir se a soma do percentual dava 100% mesmo

#tabela auxiliar para quantidade de filmes alugados. obs: para rodar a tabela tire o comando create temporary

WITH aux\_rental as

(SELECT

f.title AS film\_name,

i.film\_id AS id\_film,

count(r.rental\_id) AS Qnt\_alugueis

FROM rental r

INNER JOIN inventory i on i.inventory\_id=r.inventory\_id

INNER JOIN film f on f.film\_id=i.film\_id

GROUP BY 1

ORDER BY 3 desc)

#tabela auxiliar para quantidade de filmes disponiveis :

,aux\_disponivel as

(SELECT

f.title AS film\_name,

i.film\_id AS id\_film,

count(i.film\_id) AS Qnt\_disponiveis

FROM inventory i

INNER JOIN film f on f.film\_id=i.film\_id

GROUP by 1

ORDER by 3 desc)

#junção das tabelas auxiliares:

SELECT

aux.film\_name as "nome do filme",

aux.id\_film as "codigo do filme",

aux.Qnt\_disponiveis as "quantidade disponível",

aux1.Qnt\_alugueis as "Quantos foram alugados",

(aux1.Qnt\_alugueis/16044)\*100 as perc #porcentagem da qtd de alugueis de cada filme em relação ao total de alugueis

FROM aux\_disponivel aux

INNER JOIN aux\_rental aux1 on aux.id\_film=aux1.id\_film

GROUP BY 1

ORDER BY 5 desc);

# SIM DE FATO OS TITULOS MAIS ALUGADOS CONRRESPONDEM DE FATO AOS QUE TEM MAIOR NúMERO DE ITENS DISPONÍVEIS

SELECT SUM(perc) from soma\_percentual; # deu 100.0073

select count(rental\_id) from rental; #o total de alugueis é 16044

**/\***

**QUESTÃO 2**

**Dúvida, antes de mais nada, me diz uma coisa, tem outra forma de fazer essa questão sem usar CTEs?, se sim, o senhor pode demonstrar**

**com um exemplo ?**

**\*/**

use sakila;

WITH loja AS

(

SELECT

ca.name AS categoria,

count(r.rental\_id) AS vendas,

(CASE WHEN store\_id=1 THEN "LOJA 1" ELSE "LOJA 2" END) AS qual\_loja

FROM category ca

INNER JOIN film\_category fc

on fc.category\_id=ca.category\_id

INNER JOIN film f

on f.film\_id=fc.film\_id

INNER JOIN inventory i

on i.film\_id=f.film\_id

INNER JOIN rental r

on r.inventory\_id=i.inventory\_id

GROUP BY 1,3)

,qtd\_disponivel AS

(

SELECT ca.name AS categoria,

COUNT(i.inventory\_id) AS 'quant\_disponivel'

FROM inventory i

INNER JOIN film f

on f.film\_id=i.film\_id

INNER JOIN film\_category fc

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

INNER JOIN category ca

ON ca.category\_id = fc.category\_id

LEFT JOIN (SELECT inventory\_id,

return\_date

FROM rental

GROUP BY 1) comp

ON i.inventory\_id = comp.inventory\_id

WHERE comp.return\_date IS NOT NULL # só estão disponivéis os que foram entregues

GROUP BY 1

ORDER BY 2 DESC

)

,sales as

(SELECT

ca.name AS categoria,

SUM(p.amount) AS total\_sales

FROM payment AS p

INNER JOIN rental AS r ON p.rental\_id = r.rental\_id

INNER JOIN inventory AS i ON r.inventory\_id = i.inventory\_id

INNER JOIN film AS f ON i.film\_id = f.film\_id

INNER JOIN film\_category AS fc ON f.film\_id = fc.film\_id

INNER JOIN category AS ca ON fc.category\_id = ca.category\_id

GROUP BY ca.name

ORDER BY total\_sales DESC) #peguei do DER

SELECT sa.categoria,

sa.total\_sales,

qtd.quant\_disponivel,

lj.vendas,

lj.qual\_loja,

AVG(f.rental\_rate) AS media\_aluguel,

AVG(f.replacement\_cost) AS media\_resposição

FROM sales sa

INNER JOIN qtd\_disponivel qtd on sa.categoria=qtd.categoria

INNER JOIN loja lj on lj.categoria=qtd.categoria

INNER JOIN category c on c.name=lj.categoria

INNER JOIN film\_category fc on fc.category\_id=c.category\_id

INNER JOIN film f on f.film\_id=fc.film\_id

GROUP by 1,5

ORDER BY 2 DESC;

**/\***

**QUESTÃO 2 de outra foram**

**\*/**

WITH loja\_1 AS

(

SELECT

ca.name AS categoria,

count(r.rental\_id) AS vendas\_loja1

FROM category ca

INNER JOIN film\_category fc

on fc.category\_id=ca.category\_id

INNER JOIN film f

on f.film\_id=fc.film\_id

INNER JOIN inventory i

on i.film\_id=f.film\_id

INNER JOIN rental r

on r.inventory\_id=i.inventory\_id

where store\_id=1

GROUP BY 1)

,loja\_2 AS

(

SELECT

ca.name AS categoria,

count(r.rental\_id) AS vendas\_loja2

FROM category ca

INNER JOIN film\_category fc

on fc.category\_id=ca.category\_id

INNER JOIN film f

on f.film\_id=fc.film\_id

INNER JOIN inventory i

on i.film\_id=f.film\_id

INNER JOIN rental r

on r.inventory\_id=i.inventory\_id

where store\_id=2

GROUP BY 1)

,qtd\_disponivel AS

(

SELECT ca.name AS categoria,

COUNT(i.inventory\_id) AS 'quant\_disponivel'

FROM inventory i

INNER JOIN film f

on f.film\_id=i.film\_id

INNER JOIN film\_category fc

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

INNER JOIN category ca

ON ca.category\_id = fc.category\_id

LEFT JOIN (SELECT inventory\_id,

return\_date

FROM rental

GROUP BY 1) comp

ON i.inventory\_id = comp.inventory\_id

WHERE comp.return\_date IS NOT NULL # só estão disponivéis os que foram entregues

GROUP BY 1

ORDER BY 2 DESC

)

,sales as

(SELECT

ca.name AS categoria,

SUM(p.amount) AS total\_sales

FROM payment AS p

INNER JOIN rental AS r ON p.rental\_id = r.rental\_id

INNER JOIN inventory AS i ON r.inventory\_id = i.inventory\_id

INNER JOIN film AS f ON i.film\_id = f.film\_id

INNER JOIN film\_category AS fc ON f.film\_id = fc.film\_id

INNER JOIN category AS ca ON fc.category\_id = ca.category\_id

GROUP BY ca.name

ORDER BY total\_sales DESC) #peguei do DER

SELECT sa.categoria,

sa.total\_sales,

qtd.quant\_disponivel,

lj1.vendas\_loja1,

lj2.vendas\_loja2,

AVG(f.rental\_rate) AS media\_aluguel,

AVG(f.replacement\_cost) AS media\_reposição

FROM sales sa

INNER JOIN qtd\_disponivel qtd on sa.categoria=qtd.categoria

INNER JOIN loja\_1 lj1 on lj1.categoria=qtd.categoria

INNER JOIN loja\_2 lj2 on lj2.categoria=lj1.categoria

INNER JOIN category c on c.name=lj2.categoria

INNER JOIN film\_category fc on fc.category\_id=c.category\_id

INNER JOIN film f on f.film\_id=fc.film\_id

GROUP by 1

ORDER BY 2 DESC;

**QUESTÃO 2 outra forma):**

SELECT

c.name AS 'category',

SUM(p.amount) AS 'total\_sales',

AVG(p.amount) AS 'media\_aluguel',

AVG(f.replacement\_cost) AS 'valor\_medio\_reposicao',

SUM(CASE WHEN i.store\_id = 1 THEN 1 ELSE 0 END) AS 'Loja 1',

SUM(CASE WHEN i.store\_id = 2 THEN 2 ELSE 0 END) AS 'Loja 2',

COUNT(i.inventory\_id) AS 'unidades\_disponiveis'

FROM

sakila.payment AS p

INNER JOIN sakila.rental r

ON p.rental\_id = r.rental\_id

INNER JOIN sakila.inventory i

ON r.inventory\_id = i.inventory\_id

INNER JOIN sakila.film f

ON i.film\_id = f.film\_id

INNER JOIN sakila.film\_category fc

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

INNER JOIN sakila.category c

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

GROUP BY c.name

ORDER BY total\_sales DESC;