AV3-b

A1) elaborar e fornecer comandos SQL que utilizem os recursos abaixo.

a) consultas aninhadas

----- SELECIONAR OS TÍTULOS DOS FILMES QUE A ATRIZ PENELOPE GUINESS ATUOU

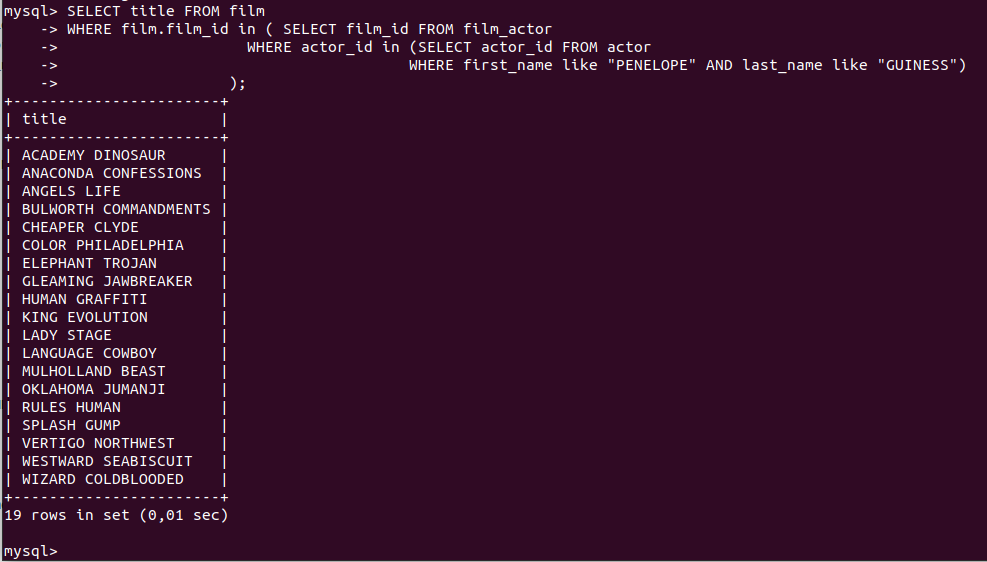
SELECT title FROM film

WHERE film.film\_id in ( SELECT film\_id FROM film\_actor

WHERE actor\_id in (SELECT actor\_id FROM actor

WHERE first\_name like "PENELOPE" AND last\_name like "GUINESS")

);



b) consultas aninhadas correlacionadas

----- SELECIONAR OS ATORES CUJA PRIMEIRA LETRA DO NOME NÃO PERTENCE

A PRIMEIRA LETRA DO NOME DE NENHUM PAÍS

SELECT \*

FROM actor

WHERE NOT EXISTS

(SELECT country from country

WHERE LEFT(country,1) = LEFT(first\_name,1)

);



c) exists

----- SELECIONAR ATORES QUE TEM NOMES IGUAIS A NOMES DE CLIENTES

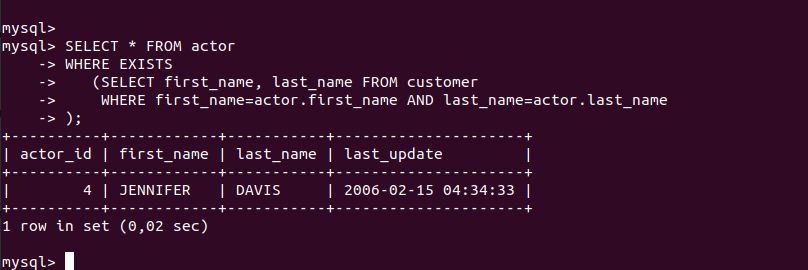
SELECT \* FROM actor

WHERE EXISTS

(SELECT first\_name, last\_name FROM customer

WHERE first\_name=actor.first\_name AND last\_name=actor.last\_name

);



d) unique ou distinct

----- TABELA TEMPORÁRIA COM OS 10 FILMES MAIS ALUGADOS

CREATE TEMPORARY TABLE filmes\_mais\_alugados

AS SELECT inventory.film\_id

FROM rental JOIN inventory on rental.inventory\_id=inventory.inventory\_id

GROUP BY inventory.film\_id

ORDER BY COUNT(\*) DESC LIMIT 10;

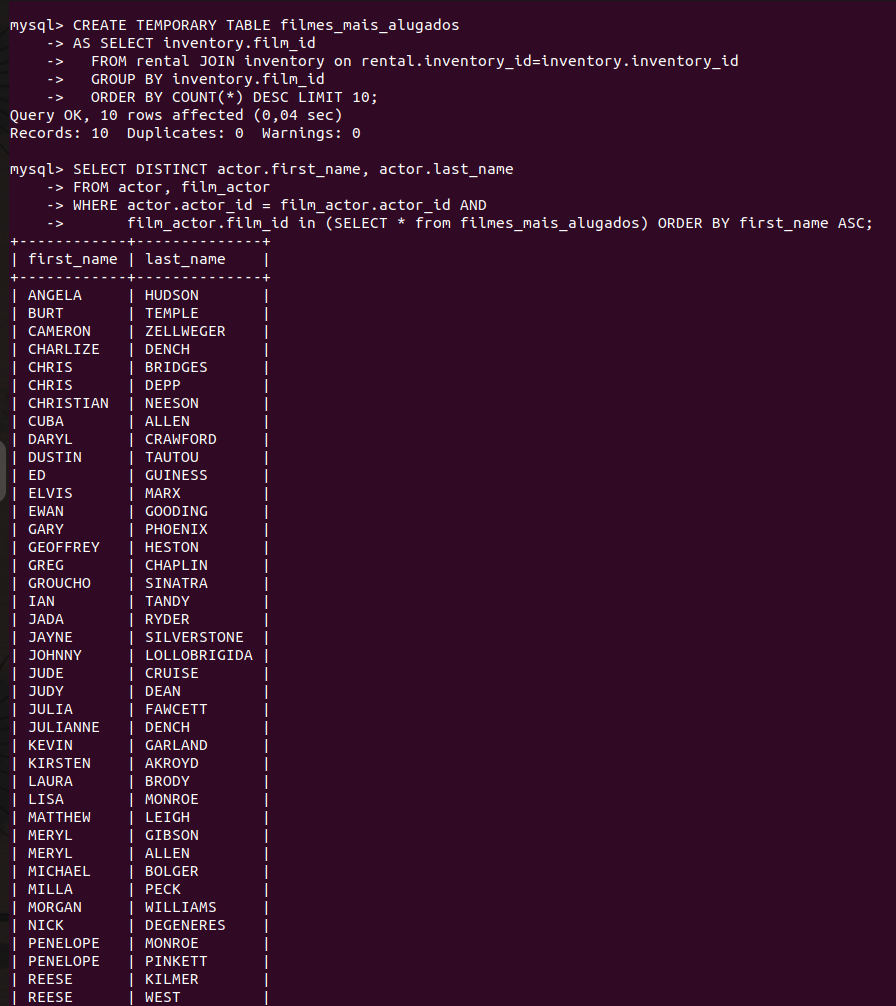
----- NOMES ORDENADOS DOS ATORES QUE ESTAVAM NOS 10 FILMES MAIS ALUGADOS

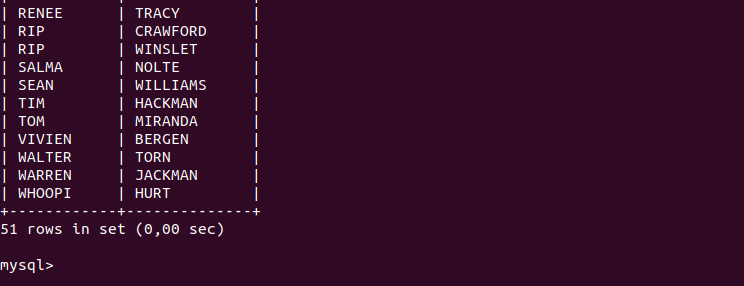
SELECT DISTINCT actor.first\_name, actor.last\_name

FROM actor, film\_actor

WHERE actor.actor\_id = film\_actor.actor\_id AND

film\_actor.film\_id in (SELECT \* from filmes\_mais\_alugados) ORDER BY first\_name ASC;





e) junções naturais

----- SELECIONAR TODOS OS ATORES DE LADY STAGE

SELECT film\_actor.film\_id, film.title,

film\_actor.actor\_id, actor.first\_name, actor.last\_name

from (actor join film\_actor on actor.actor\_id=film\_actor.actor\_id) join film on film.film\_id=film\_actor.film\_id

WHERE film.title like "LADY STAGE";



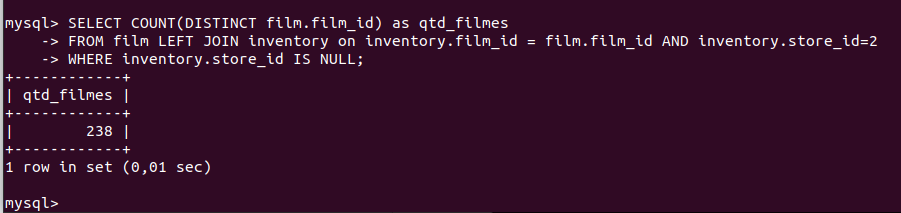
f) junção left ou right

----- QUANTIDADE DE FILMES QUE NÃO TEM NA LOJA 2

SELECT COUNT(DISTINCT film.film\_id) as qtd\_filmes

FROM film LEFT JOIN inventory on inventory.film\_id = film.film\_id AND inventory.store\_id=2

WHERE inventory.store\_id IS NULL;



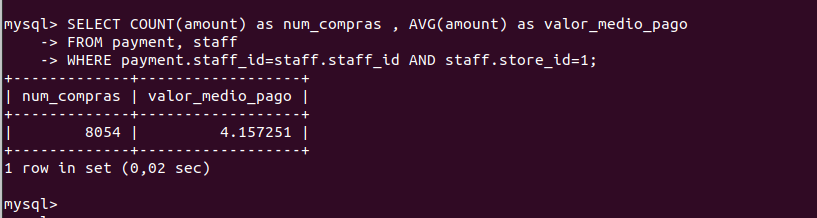
g) agregação

------ SELECIONAR O NÚMERO DE COMPRAS E O VALOR MÉDIO PAGO PELOS CLIENTES NA LOJA 1

SELECT COUNT(amount) as num\_compras , AVG(amount) as valor\_medio\_pago

FROM payment, staff

WHERE payment.staff\_id=staff.staff\_id AND staff.store\_id=1;



h) group by

------ EXIBIR OS FILMES DE MAIOR DURAÇÃO DE CADA CATEGORIA

SELECT category.name, film.title, film.length

FROM (category JOIN film\_category on category.category\_id=film\_category.category\_id)

JOIN film on film.film\_id=film\_category.film\_id

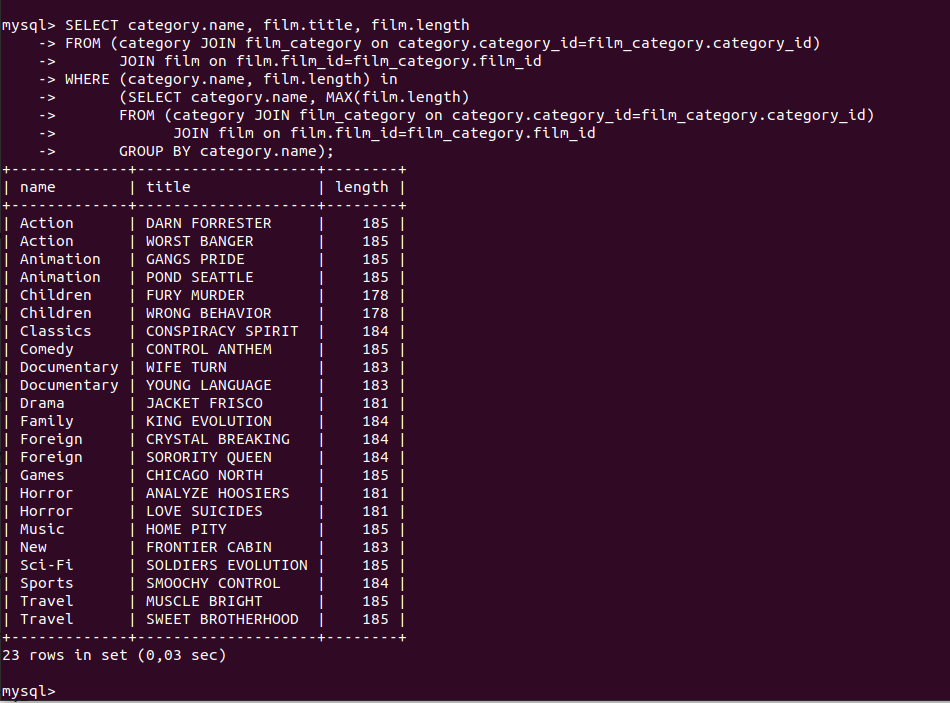
WHERE (category.name, film.length) in

(SELECT category.name, MAX(film.length)

FROM (category JOIN film\_category on category.category\_id=film\_category.category\_id)

JOIN film on film.film\_id=film\_category.film\_id

GROUP BY category.name);



A2) fornecer o comando de criação de uma visão;

------ VIEW COM A QUANTIDADE DE CLIENTES DE CADA PAÍS DO MUNDO

CREATE VIEW cliente\_por\_pais

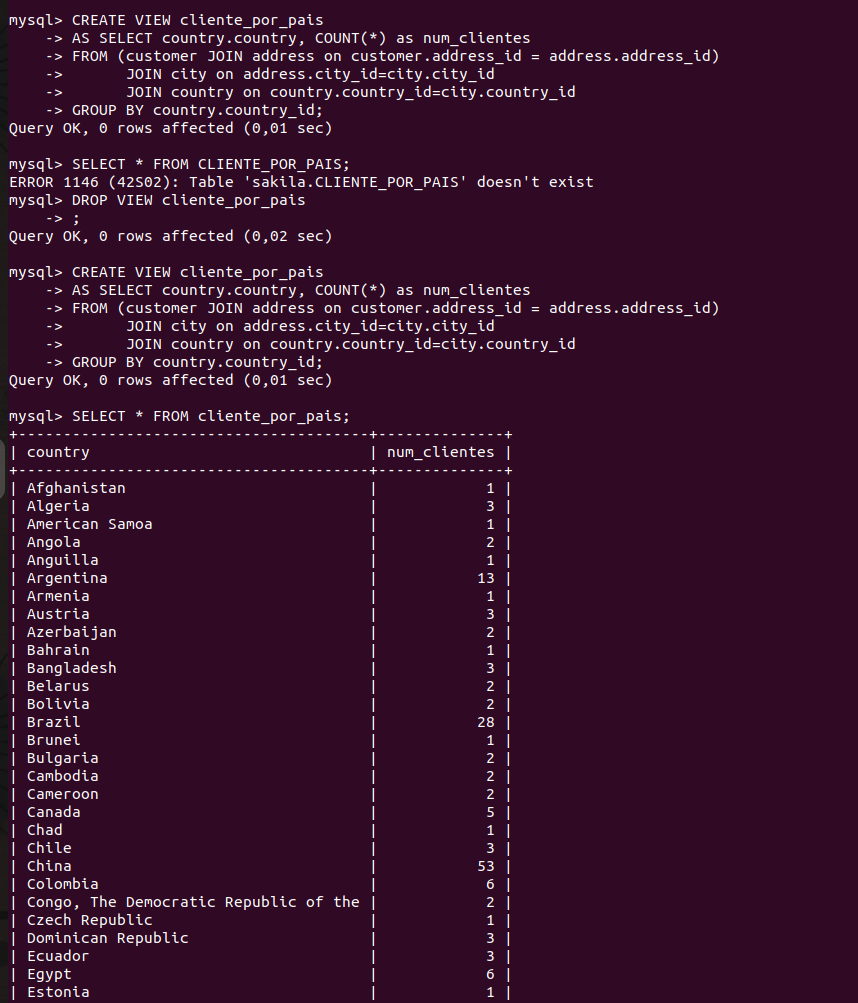
AS SELECT country.country, COUNT(\*) as num\_clientes

FROM (customer JOIN address on customer.address\_id = address.address\_id)

JOIN city on address.city\_id=city.city\_id

JOIN country on country.country\_id=city.country\_id

GROUP BY country.country\_id;



A3) elaborar um programa (sugestão: em python) que percorra os registros obtidos por um dos comandos SQL's que foi criado nos itens "a" a "h".

-------------------------------------------------------

#Percorrer registros obtidos pelo comando SQL do item e

import mysql.connector

mydb = mysql.connector.connect(

host="localhost",

user="root",

password="Iamon\_14",

database="sakila"

)

mycursor = mydb.cursor()

mycursor.execute("SELECT film\_actor.film\_id, film.title, \

film\_actor.actor\_id, actor.first\_name, actor.last\_name \

from (actor join film\_actor on actor.actor\_id=film\_actor.actor\_id) join film on film.film\_id=film\_actor.film\_id \

WHERE film.title like 'LADY STAGE'")

myresult = mycursor.fetchall()

print("ATORES DE LADY STAGE: \n")

for x in myresult:

print("- ", x[3], x[4])

-------------------------------------------------------



FIM