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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")

);
```

```
l> 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")
   title
   ACADEMY DINOSAUR
   ANACONDA CONFESSIONS
   ANGELS LIFE
   BULWORTH COMMANDMENTS
CHEAPER CLYDE
  COLOR PHILADELPHIA
ELEPHANT TROJAN
GLEAMING JAWBREAKER
HUMAN GRAFFITI
   KING EVOLUTION
LADY STAGE
   LANGUAGE COWBOY
MULHOLLAND BEAST
   OKLAHOMA JUMANJI
RULES HUMAN
   SPLASH GUMP
   VERTIGO NORTHWEST
   WESTWARD SEABISCUIT
   WIZARD COLDBLOODED
19 rows in set (0,01 sec)
mysql>
```

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;

```
mysql> 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;
Query OK, 10 rows affected (0,04 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql> SELECT DISTINCT actor.first_name, actor.last_name
     -> FROM actor, film_actor
-> FROM actor.actor_id = film_actor.actor_id AND
-> WHERE actor.actor_film_id in (SELECT * from filmes_mais_alugados) ORDER BY first_name ASC;
 | first_name | last_name
                  HUDSON
   ANGELA
   BURT
                   TEMPLE
                  ZELLWEGER
   CAMERON
   CHARLIZE
                  DENCH
   CHRIS
                   BRIDGES
                  DEPP
   CHRIS
                  NEESON
   CHRISTIAN
   CUBA
                   ALLEN
   DARYL
                   CRAWFORD
   DUSTIN
                   TAUTOU
                   GUINESS
   ED
   ELVIS
                  MARX
   EWAN
                   GOODING
   GARY
                   PHOENIX
   GEOFFREY
                   HESTON
                   CHAPLIN
   GREG
   GROUCHO
                   SINATRA
                   TANDY
   IAN
   JADA
                  RYDER
                   SILVERSTONE
   JAYNE
   JOHNNY
                   LOLLOBRIGIDA
   JUDE
                   CRUISE
   JUDY
                   DEAN
   JULIA
                   FAWCETT
   JULIANNE
                   DENCH
   KEVIN
                   GARLAND
   KIRSTEN
                   AKROYD
   LAURA
                   BRODY
   LISA
                   MONROE
   MATTHEW
                   LEIGH
   MERYL
                   GIBSON
   MERYL
                   ALLEN
   MICHAEL
                   BOLGER
   MILLA
                   PECK
   MORGAN
                   WILLIAMS
                   DEGENERES
   NICK
   PENELOPE
                   MONROE
   PENELOPE
                   PINKETT
   REESE
                   KILMER
   REESE
                   WEST
  RENEE
                     TRACY
                     CRAWFORD
  RIP
  RIP
                     WINSLET
  SALMA
                     NOLTE
  SEAN
                     WILLIAMS
  TIM
                     HACKMAN
  TOM
                     MIRANDA
  VIVIEN
                     BERGEN
  WALTER
                     TORN
  WARREN
                     JACKMAN
  WHOOPI
                   HURT
51 rows in set (0,00 sec)
mysql>
```

e) junções naturais

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

```
mysql> 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";
                            | actor_id | first_name | last_name
   film_id | title
        506 | LADY STAGE |
                                       1 | PENELOPE
                                                           | GUINESS
                                     48 | FRANC
49 | ANNE
64 | RAY
        506
               LADY STAGE
                                             FRANCES
                                                             DAY-LEWIS
              LADY STAGE
                                                             CRONYN
        506
               LADY STAGE
                                                             JOHANSSON
        506
                                             PENELOPE
        506
              LADY STAGE
                                     104
                                                             CRONYN
              LADY STAGE
                                             HARRISON
                                                             BALE
               LADY STAGE
                                                             SILVERSTONE
        506
              LADY STAGE
                                             ROCK
                                                             DUKAKIS
  rows in set (0,00 sec)
mysql>
```

## 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;

```
mysql> 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;
+------+
| qtd_filmes |
+------+
| 238 |
+-----+
1 row in set (0,01 sec)
mysql>
```

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

```
mysql> 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);
                  | title
                                              | length |
  name
  Action
                  | DARN FORRESTER
  Action
                     WORST BANGER
                                                     185
                     GANGS PRIDE
                                                     185
  Animation
                    POND SEATTLE
FURY MURDER
WRONG BEHAVIOR
                                                     185
  Animation
  Children
                                                     178
  Children
                                                     178
                     CONSPIRACY SPIRIT
  Classics
                                                     184
  Comedy
                     CONTROL ANTHEM
                                                     185
                     WIFE TURN
YOUNG LANGUAGE
  Documentary
                                                     183
  Documentary |
                                                     183
                     JACKET FRISCO
                                                     181
  Drama
  Family
                     KING EVOLUTION
                                                     184
                                                     184
                     CRYSTAL BREAKING
  Foreign
                     SORORITY QUEEN
CHICAGO NORTH
  Foreign
                                                     184
  Games
                                                     185
                     ANALYZE HOOSIERS
  Ноггог
                                                     181
                    LOVE SUICIDES HOME PITY
  Ноггог
                                                     181
  Music
                                                     185
  New
                     FRONTIER CABIN
                                                     183
  Sci-Fi
                     SOLDIERS EVOLUTION
                                                     185
  Sports
                     SMOOCHY CONTROL
                                                     184
  Travel
                     MUSCLE BRIGHT
                                                     185
                  | SWEET BROTHERHOOD
  Travel
23 rows in set (0,03 sec)
mysql>
```

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;
```

```
mysql> 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;
Query OK, 0 rows affected (0,01 sec)
mysql> SELECT * FROM CLIENTE POR PAIS;
ERROR 1146 (42S02): Table 'sakila.CLIENTE_POR_PAIS' doesn't exist mysql> DROP VIEW cliente_por_pais
Query OK, 0 rows affected (0,02 sec)
mysql> 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;
Query OK, 0 rows affected (0,01 sec)
mysql> SELECT * FROM cliente_por_pais;
                                           | num_clientes |
| country
| Afghanistan
| Algeria
 American Samoa
 Angola
 Anguilla
  Argentina
                                                        13
  Armenia
 Austria
                                                         3
2
  Azerbaijan
  Bahrain
                                                         1
  Bangladesh
                                                         3
  Belarus
 Bolivia
                                                         2
  Brazil
                                                        28
  Brunei
  Bulgaria
                                                         2
  Cambodia
  Cameroon
                                                         2
  Canada
                                                         5
  Chad
  Chile
                                                         3
  China
                                                        53
  Colombia
                                                         б
  Congo, The Democratic Republic of the
                                                         2
  Czech Republic
  Dominican Republic
                                                         3
  Ecuador
                                                         3
  Egypt
  Estonia
                                                         1
```

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",
```

**FIM**