# **DISCIPLINA**

# Infraestrutura Hadoop



Pós-Graduação em Engenharia de Dados: Big Data

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**Tema:** Relação entre dados demográficos dos Estados e o Pagamento de Royalties do Petróleo no Brasil.

# 1. Dicionário de Dados:

Tabela.1: Pagamento Royalties				
Nome	Descrição	Tipo de Dado		
UF	Unidades Federativas	string		
Total	Total de Royalties do Petróleo (R\$)	float		

```
| District | District
```

Tabela.2: Dados Demográficos				
Nome	Descrição	Tipo de Dado		
estados_do_brasil	Unidades Federativas	string		
area_territorial	Área territorial dos Estados	float		
populacao_residente	População Residente no Estados	float		
densidade_demografica	Densidade Demográfica dos Estados	float		
IDH	Índica de Desenvolvimento Humano dos Estados	float		
rendimento_mensal_domicili	Rendimento domiciliar per capita por Estado	float		
ar_per_capita				
total_de_veiculos	Total de veículos por Estado	float		

INFO : Completed exec INFO : OK INFO : Concurrency mo	cuting command(queryId=	904154219_ef8d170a-dd7a-4a75-abf1-e05744b32 hive_20230904154219_ef8d170a-dd7a-4a75-abf1 eating a lock manager	-e05744b32ebe); Time
estados_do_brasil	populacao_residente	rendimento_mensal_domiciliar_per_capita	total_de_veiculos
Estados do Brasil	NULL	NULL	NULL
AL	3127511.0	935.0	1034187.0
AP	733508.0	1177.0	232691.0
AM .	3941175.0	965.0	1069794.0
BA	1.4136417E7	1010.0	4887673.0
CE	8791688.0	1050.0	3625994.0
DF	2817068.0	2913.0	2021627.0
ES	3833486.0	1723.0	2248960.0
MA		814.0	2031236.0
	2.0538718E7	1529.0	1.3028883E7
	8116132.0	1061.0	2478988.0
PB		1096.0	1523167.0
		1846.0	8575905.0
PE		1010.0	3439164.0
		1971.0	7475503.0
RN	3302406.0	1267.0	1495094.0
	1.0880506E7	2087.0	7869630.0
SC	7609601.0	2018.0	5974106.0
SP	4.442046E7	2148.0	3.2293192E7
SE	2209558.0	1187.0	907388.0
NFO : Compiling comm NFO : Concurrency mo NFO : Semantic Analy	host:10000/default> des mand(queryId=hive_20230 mode is disabled, not cr ysis Completed (retrial e schema: Schema(fieldS		_

\* Foram aproveitadas as colunas estados\_do\_brasil, população\_residente, rendimento\_mensal\_domiciliar\_per\_capita e total\_de\_veiculos.

Tabela.3: Quantidade de Domicilios					
Nome	Descrição	Tipo de Dado			
sigla	Unidades Federativas	string			
Ano_2000	Quantidade de domicílios por Estados	float			

```
0: jdbc:hive2://localhost:10000/default> select * from quantidade_domicilios;
INFO : Compiling command(queryId=hive_20230904193717_0871adf7-3498-4d48-a5d5-2838e07127a8): select * from q
uantidade_domicilios
INFO : Concurrency mode is disabled, not creating a lock manager
      : Semantic Analysis Completed (retrial = false)
INFO : Returning Hive schema: Schema(fieldSchemas:[FieldSchema(name:quantidade_domicilios.sigla, type:strin g, comment:null), FieldSchema(name:quantidade_domicilios.ano_2000, type:float, comment:null)], properties:null)
INFO : Completed compiling command(queryId=hive 20230904193717 0871adf7-3498-4d48-a5d5-2838e07127a8); Time
taken: 0.159 seconds
INFO : Concurrency mode is disabled, not creating a lock manager
INFO : Executing command(queryId=hive_20230904193717_0871adf7-3498-4d48-a5d5-2838e07127a8): select * from q
uantidade_domicilios
INFO : Completed executing command(queryId=hive 20230904193717 0871adf7-3498-4d48-a5d5-2838e07127a8); Time
taken: 0.001 seconds
INFO : OK
INFO : Concurrency mode is disabled, not creating a lock manager
| quantidade domicilios.sigla | quantidade domicilios.ano 2000
                                     | NULL
| Sigla
  AC
                                      131580.0
 AL
                                      658873.0
                                    1 580900.0
| AM
  AΡ
                                    I 100765.0
  BA
                                    | 3214292.0
  CE
                                    | 1773393.0
  DF
                                    | 556762.0
  ES
                                    851014.0
  GO
                                      1420822.0
  ΜA
                                      1246715.0
  MG
                                      4837296.0
  MS
                                      577362.0
  ΜT
                                      669676.0
  PA
                                      1332248.0
  PΒ
                                      857989.0
  PE
                                      1994041.0
  PΙ
                                      665808.0
                                     1 2709523.0
  PR
                                      4315737.0
  RJ
  RN
                                      678652.0
  RO
                                      354391.0
  RR
                                      76681.0
  RS
                                      3091643.0
  SC
                                      1518651.0
  SE
                                      442256.0
  SP
                                       1.0564745E7
  TO
                                      285701.0
28 rows selected (0.202 seconds)
0: jdbc:hive2://localhost:10000/default> LOAD DATA INPATH '/user/leonardo_moraes/datasets/quantidade_municip
ios.csv' OVERWRITE INTO TABLE qtd_num;
INFO : Compiling command(queryId=hive_20230904193810_b151a45e-7117-43da-b679-0700aafa6c5a): LOAD DATA INPAT
H '/user/leonardo moraes/datasets/quantidade municipios.csv' OVERWRITE INTO TABLE qtd num
INFO : Concurrency mode is disabled, not creating a lock manager
```

Tabela.4: Quantidade Numero de Municípios				
Nome	Descrição	Tipo de Dado		
uf	Unidades Federativas	string		
qtd_num	Quantidade de municípios por Estados	float		

```
jdbc:hive2://localhost:10000/default> select * from gtd num,
INFO : Compiling command(queryId=hive_20230904193828_d198e39d-1093-49a0-a74b-c448cd49fc97): select * from q
td num
INFO : Concurrency mode is disabled, not creating a lock manager
INFO : Semantic Analysis Completed (retrial = false)
INFO : Returning Hive schema: Schema(fieldSchemas:[FieldSchema(name:qtd num.uf, type:string, comment:null),
FieldSchema(name:qtd_num.qtd_num, type:float, comment:null)], properties:null)
INFO : Completed compiling command(queryId=hive_20230904193828_d198e39d-1093-49a0-a74b-c448cd49fc97); Time
taken: 0.161 seconds
INFO : Concurrency mode is disabled, not creating a lock manager
INFO : Executing command(queryId=hive_20230904193828_d198e39d-1093-49a0-a74b-c448cd49fc97): select * from q
td_num
INFO : Completed executing command(queryId=hive_20230904193828_d198e39d-1093-49a0-a74b-c448cd49fc97); Time
taken: 0.004 seconds
INFO : OK
INFO : Concurrency mode is disabled, not creating a lock manager
| gtd num.uf | gtd num.gtd num
                 | NULL
  UF
  RO
                  52.0
                  22.0
  ΑM
                  62.0
                  15.0
  PΑ
                  144.0
  ΑP
                  16.0
  TO
                  139.0
  ΜA
                  217.0
                  224.0
  CE
                 | 184.0
  RN
                 I 167.0
  PΒ
                 | 223.0
  PE
                 | 185.0
  ΑL
                  102.0
  SE
                  75.0
  BA
                  417.0
  MG
                  853.0
  ES
                  78.0
  RJ
                  92.0
  SP
                  645.0
  PR
                  399.0
                  295.0
  RS
                  497.0
                  79.0
  MS
  MT
                 141.0
  GO
                  246.0
                  1.0
28 rows selected (0.227 seconds)
0: jdbc:hive2://localhost:10000/default>
```

### 2. Identificação das fontes de onde os dados foram retirados:

# Tabela.1: Pagamento Royalties:

Fonte: IBGE

url: https://www.ibge.gov.br/cidades-e-estados

# Tabela.2: Dados Demográficos:

Fonte: IBGE

url: https://www.kaggle.com/datasets/luizph21/pagamento-de-royalties-do-petrleo-no-brasil

# Tabela.3: Quantidade Municípios:

Fonte: Ministério do Desenvolvimento e Assistência Social, Família e Combate à Fome url: http://blog.mds.gov.br/redesuas/lista-de-municipios-brasileiros/

#### Tabela.4: Quantidade Domicilios:

Fonte: Ipea Data

url: http://www.ipeadata.gov.br/Default.aspx

# 3. Scripts de criação do database no Hive

#### Show tables

```
0: jdbc:hive2://localhost:10000/default> show tables;
INFO : Compiling command(queryId=hive_20230904180344_898394f2-f0ca-4968-b159-ed67e4e728fe): show tables
INFO : Concurrency mode is disabled, not creating a lock manager
      : Semantic Analysis Completed (retrial = false)
      : Returning Hive schema: Schema(fieldSchemas:[FieldSchema(name:tab_name, type:string, comment:from des
erializer)], properties:null)
INFO : Completed compiling command(queryId=hive_20230904180344_898394f2-f0ca-4968-b159-ed67e4e728fe); Time
taken: 0.02 seconds
INFO : Concurrency mode is disabled, not creating a lock manager
      : Executing command(queryId=hive_20230904180344_898394f2-f0ca-4968-b159-ed67e4e728fe): show tables
      : Starting task [Stage-0:DDL] in serial mode
      : Completed executing command(queryId=hive_20230904180344_898394f2-f0ca-4968-b159-ed67e4e728fe); Time
taken: 0.016 seconds
INFO : OK
INFO : Concurrency mode is disabled, not creating a lock manager
          tab name
  dados demograficos
  pagamento_royalties
  qtd num
| quantidade_domicilios
4 rows selected (0.067 seconds)
0: jdbc:hive2://localhost:10000/default>
```

### Tabela.1: Pagamento Royalties:

```
CREATE TABLE pagamento_royalties (
UF STRING,
Total FLOAT)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ',';
```

#### describe pagamento\_royalties

```
0: jdbc:hive2://localhost:10000/default> describe dados demograficos;
INFO : Compiling command(queryid=hive_2023090415430, 09aho65b-46ea-4bt-ancl-c011448106db): describe dados demograficos
INFO : Sentining Name of the Compiling command (queryid=hive 2023090415430) open command (que
```

# Tabela.2: Dados Demográficos:

```
CREATE TABLE dados_demograficos (
Estados_do_Brasil STRING,
Area_Territorial FLOAT,
Populacao_Residente FLOAT,
Densidade_Demografica FLOAT,
IDH FLOAT,
Rendimento_Mensal_Domiciliar_per_Capita FLOAT,
Total_de_Veiculos FLOAT)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ',';
```

#### describe dados\_demograficos

### Tabela.3: Quantidade Municípios:

```
CREATE TABLE qtd_num (
UF STRING,
qtd_num FLOAT)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ';';
```

```
6; jdbc.hiwe2//jlocalhout;10000/default) describe qui mus
1000 | Compiling command(queryld-wire_2003000149711_8015004-7972-4540-5423-70062he87582); describe qui jums
1000 | Semantic Assiyus Compileted (retrial = false)
1000 | Semantic Compileted (retrial = false)
1001 | Semantic Compileted (retrial = false)
1001 | Semantic Compileted (retrial = false)
1002 | Semantic Compileted (retrial = false)
1003 | Semantic Compileted (retrial = false)
1004 | Semantic Compileted (retrial = false)
1005 | Semantic Compileted (retrial = false)
1006 | Semantic Compileted (retrial = false)
1007 | Semantic Compilete (retrial = false)
1008 | Semantic Compilete (retrial = false)
1009 | Semantic Compilete (retrial = false)
1009 | Semantic Compilete (retrial = false)
1009 | Semantic Compilete (retrial = false)
1001 | Semantic Compilete (retrial = false)
1002 | Semantic Compilete (retrial = false)
1003 | Semantic Compilete (retrial = false)
1004 | Semantic Compilete (retrial = false)
1005 | Semantic Compilete (retrial = false)
1006 | Semantic Compilete (retrial
```

### Tabela.4: Quantidade Domicilios:

```
CREATE TABLE quantidade_domicilios (
Sigla STRING,
Ano_2000 FLOAT)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ';';
```

```
6. jdb:nlw2//jocahasti000/defaults describe quantidate_describe quantidate_to comment from describe qu
```

# 4. Scripts de ingestão de dados no Hive

#### Is -la

```
oraes@cluster-4c01-m:~$ ls -la
total 52
drwxr-xr-x 5 leonardo_moraes leonardo_moraes 4096 Sep
                                                                           4 17:51
                                                                     Sep
                                                                            3 17:02
drwxr-xr-x 4 root
                                                              4096
                                       root
-rw------ 1 leonardo moraes leonardo moraes 6417 Sep 4 17:19 .bash history
-rw-r--r-- 1 leonardo moraes leonardo moraes 220 Mar 27 2022 .bash logout
-rw-r--r-- 1 leonardo moraes leonardo moraes 3526 Mar 27 2022 .bashrc
                                                                           3 21:23
drwxr-xr-x 2 leonardo_moraes leonardo_moraes 4096
                                                                     Sep
                                                                                       .beeline
                                                              807 Mar 27
 -rw-r--r-- 1 leonardo_moraes leonardo_moraes
                                                                           4 1:20 Pagamento_Royalties_Petroleo_Soma_por_UF.csv
4 1:12 dados_demograficos_IBGE.csv
3 1
drwx----- 2 leonardo moraes leonardo moraes 4096 Sep
-rw-r--r-- 1 leonardo moraes leonardo moraes 280 Sep
-rw-r--r-- 1 leonardo moraes leonardo moraes 888 Sep
drwxr-xr-x 1 leonardo moraes leonardo moraes
                                                                  0 Sep
                                                                            4 1 :51 quantidade_domicilios.csv
4 1 :51 quantidade_municipios.csv
                 leonardo moraes leonardo moraes
                                                               325 Sep
                                                               217 Sep
-rw-r--r-- 1 leonardo moraes leonardo moraes
```

### Tabela.1: Pagamento Royalties:

LOAD DATA INPATH '/user/leonardo\_moraes/datasets/Pagamento\_Royalties\_Petroleo\_Soma\_por\_UF.csv' OVERWRITE INTO TABLE pagamento\_royalties;

```
8: 3db::nive2://locathost:10000/default: IGAD DATA INFATE //user/leonardo gozaes/datasets/Fagamento Royalties Petroleo Soma por UF.csv' OVERWITE INTO TABLE pagamento royalties petroleo Soma por UF.csv' OVERWITE INTO TA BLE pagamento Royalties Petroleo Soma por UF.csv' OVERWITE INTO TA BLE pagamento Royalties Petroleo Soma por UF.csv' OVERWITE INTO TA BLE pagamento Royalties Petroleo Soma por UF.csv' OVERWITE INTO TA BLE pagamento Royalties Petroleo Soma por UF.csv' OVERWITE INTO TA BLE pagamento Royalties Petroleo Soma por UF.csv' OVERWITE INTO TA BLE pagamento Royalties Petroleo Soma por UF.csv' OVERWITE INTO TA UF. Concurrency work is disabled, not creating a lock manager

18FO : Concurrency mode is disabled, not creating a lock manager

18FO : Concurrency mode is disabled, not creating a lock manager

18FO : Starting task (Stage-O:MOVE) in serial mode

18FO : Concurrency mode is disabled, not creating a lock manager

18FO : Concurrency mode is disabled, not creating a lock manager

18FO : Concurrency mode is disabled, not creating a lock manager

18FO : Concurrency mode is disabled, not creating a lock manager
```

## Tabela.2: Dados Demográficos:

LOAD DATA INPATH '/user/leonardo\_moraes/datasets/dados\_demograficos\_IBGE.csv' OVERWRITE INTO TABLE dados\_demograficos;

```
0. glochive2://bocalbor:1000/defaulto:IO00/DATA_INPATE //user/leconardo_moraes/datasets/dados_demograficos_INFO rABLE dados_demograficos_INFO rable dados_de
```

## Tabela.3: Quantidade Municípios:

LOAD DATA INPATH '/user/leonardo\_moraes/datasets/quantidade\_municipios.csv' OVERWRITE INTO TABLE qtd\_num;

```
1870 | Complication of the Complete Com
```

### Tabela.4: Quantidade Domicilios:

LOAD DATA INPATH '/user/leonardo\_moraes/datasets/quantidade\_domicilios.csv' OVERWRITE INTO TABLE quantidade\_domicilios;

```
0. Sinchiwed; 7/1/collaber; 10000/asfrails; 7200 1973 197317 1/0872 10000 as a collaboration of the collaboration
```

# 5. Scripts de carga dos dados para o HDFS

### Tabela.1: Pagamento Royalties:

leonardo\_moraes@cluster-4c01-m:~\$ hdfs dfs -put Pagamento\_Royalties\_Petroleo\_Soma\_por\_UF.csv /user/leonardo\_moraes/datasets

# cat Pagamento\_Royalties\_Petroleo\_Soma\_por\_UF.csv

```
eonardo_moraes@cluster-4c01-m:~$ cat Pagamento_Royalties_Petroleo_Soma_por_UF.csv
UF;Total
DF;32011704373
RJ;31807476068
ES;7740799070
SP;6152401070
RN;2364487067
BA;2358126668
SE;1587916179
AM;1457279878
AL;599557919
RS;469761128
CE;337681373
MA;329627650
PE;299824032
SC:281323599
PB;166319910
MG:87406390
PR;46649298
PA:8291489
AP;1463204
leonardo moraes@cluster-4c01-m:~$
```

## Tabela.2: Dados Demográficos:

leonardo moraes@cluster-4c01-m:~\$ hdfs dfs -put dados demograficos IBGE.csv /user/leonardo moraes/datasets

## cat dados\_demograficos\_IBGE.csv

```
Lenardo moraes@cluster-4c01-m-% cat dados_demograficos_IBGE.csv

Estados_do_Brasil; Area_Territorial; Populacao_Residente; Densidade_Demografica; IDH; Rendimento_Mensal_Domiciliar_per_Capita;Total_de_Veiculos
AL;27830;3127511;112;0.6;935;1034187
AP;142470;7335008;50.6;1107;232691
AM;1559255;3941175;2:0.7;965;1069794
BA;564760;14136417;257.0;1010;4887673
CE;148894;8791688;59;0.7;1050;3625994
DF;5760;2817068;489;0.8;2913;2021627
ES;46074;3833486;83;0.7;1723;2248960
MA;329651;6775152;20;0.6;814;2031236
MG;5886513;20538718;35;0.7;1529;13028883
PA;1245870;8116132;6;0.6;1061;2478988
BB;56467;3974495;70,39;0.6;1096;1523167
   PA;1245870;8116132;6;0.6;1061;2478988
PB;56467;3974495;70,39;0.6;1096;1523167
PR;199298;11443208;57;0.7;1846;8575905
PE;98067;9058155;92;0.7;1010;3439164
RJ;43750;16054524;366;0.762;1971;7475503
RN;52809;3302406;62;0.7;1267;1495094
RS;281707;10880506;38;0.7;2087;7869630
SC;95730;7609601;79;0.7;2018;5974106
    SP;248219;44420459;178;0.8;2148;32293191
SE;21938;2209558;100;0.7;1187;907388
```

# Tabela.3: Quantidade Municípios:

leonardo\_moraes@cluster-4c01-m:~\$ hdfs dfs -put quantidade\_municipios.csv /user/leonardo\_moraes/datasets

#### cat quantidade\_municipios.csv

# Tabela.4: Quantidade Domicilios:

leonardo\_moraes@cluster-4c01-m:~\$ hdfs dfs -put quantidade\_domicilios.csv /user/leonardo\_moraes/datasets

# cat quantidade\_domicilios.csv

```
_____....cinUS.CSV
leonardo_moraes@cluster-4c01-m:~$ cat quantidade_domicilios.csv
Sigla;Ano_2000
AC;131580
AL;658873
AM;580900
                  raes@cluster-4c01-m:~$
```

# 6. Formulação de perguntas analíticas a serem respondidas com os dados:

#### Consulta.1:

- Quais são as três UF que mais recebem royalties no Brasil? DF, RJ, ES.

### Consulta.2:

- Quais são as três UF (siglas) com maior quantidade de domicilios no Brasil? SP, MG, RJ.

# Consulta.3:

- Quais são as cinco UF que mais possuem municípios no Brasil? MG, SP, RS, BA, PR.

## Consulta.4

- Quais são as três UF que mais possuem veículos no Brasil? SP, MG, PR.

#### Consulta.5

- Quais são as três UF com o maior número de população residente no Brasil? SP, MG, RJ.

# 7. Scripts com as consultas SQL que foram utilizadas nas análises:

#### Consulta.1

- select uf, total from pagamento\_royalties order by total desc limit 3;

```
::hive2://localhost:10000/default> select uf, total from pagamento royalties order by total desc limit 3;

Compiling command(queryId=hive_20230904230318_daba2327-3520-4c75-bce9-d7lb3de0c315): select uf, total from pagamento_royalties order by total desc limit 3

Concurrency mode 1s disabled, not creating a lock manager

Returning Hive schema: Schema(fieldSchemas:[FieldSchema(name:uf, type:string, comment:null), FieldSchema(name:total, type:float, comment:null)], properties:null)

Completed compiling command(queryId=hive_20230904230318_daba2327-3520-4c75-bce9-d7lb3de0c315); Time taken: 0.441 seconds

Concurrency mode is disabled, not creating a lock manager

Executing command(queryId=hive_20230904230318_daba2327-3520-4c75-bce9-d7lb3de0c315): select uf, total from pagamento_royalties order by total desc limit 3

Query ID = hive_20230904230318_daba2327-3520-4c75-bce9-d7lb3de0c315

Total jobs = 1

Launching Job 1 out of 1

Starting task [Stage-1:MARRED] in serial mode

Subscribed to counters: [] for queryId: hive_20230904230318_daba2327-3520-4c75-bce9-d7lb3de0c315

Tez session hasn't been created yet. Opening session

Dag name: select uf, total from pagamento_royaltie...3 (Stage-1)

Status: Running (Executing on TARN cluster with App id application_1693759391598_0001)
                                                                                                        STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
                                                                                                                          and(queryId=hive 20230904230318 daba2327-3520-4c75-bce9-d71b3de0c315); Time taken: 35.63 seconds
                                      total
                | 3.20117043E10
| 3.18074757E10
| 7.740799E9
DF
RJ
ES
   rows selected (36.217 seconds)
jdbc:hive2://localhost:10000/default>
```

#### Consulta.2

- select sigla, ano\_2000 from quantidade\_domicilios order by ano\_2000 desc limit 3;

```
tal jobs = 1
unching Job 1 out of 1
krting takk [Stape-1:HAFFED] in serial mode
krting takk [Stape-1:HAFFED] in generals have_20230904231116_bc5355c6-034d-4401-s7ds-888e5c8bf865
```

## Consulta.3

select uf, qtd\_num from qtd\_num order by qtd\_num desc limit 5;

```
be:hive2://localhost:10000/default> select uf, gtd_num from gtd_num order by gtd_num desc limit 5;

compiling command(queryid-hive_20230905000930_ebl5c93-abbd-40cf-b019-6774d6cea9ac): select uf, gtd_num from gtd_num order by gtd_num desc limit 5

concurrency mode is disabled, not creating a lock manager

completed (retrial = false)

Returning Hive schema: Schema(ficldSchemas:[FicldSchema(name:uf, type:string, comment:null), FicldSchema(name:qtd_num, type:float, comment:null)], properties:null)

completed compiling command(queryid-hive_20230905000930) ebl5c593-abbd-40cf-b019-6774d6cea9ac); Time taken: 0.224 seconds

concurrency mode is disabled, not creating a lock manager

concurrency mode is disabled, not creating a lock manager

concurrency mode is disabled, not creating a lock manager

concurrency mode is disabled, not creating a lock manager

concurrency mode is disabled, not creating a lock manager

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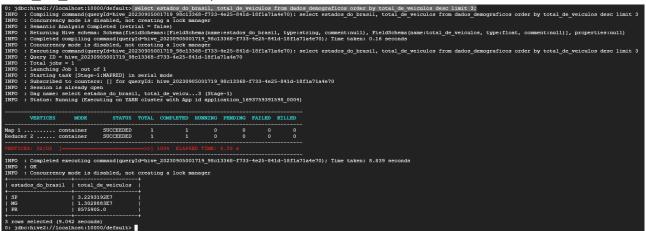
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concurr
                                                                                                                                                                        STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
              : Completed executing command(queryId=hive_20230905000930_eb15c593-8b8d-40cf-b019-6774d6cea9ac); Time taken: 13.16 seconds : OK : Concurrency mode is disabled, not creating a lock manager
                | qtd_num |
             | 853.0
| 645.0
| 497.0
| 417.0
| 399.0
rows selected (13.426 seconds)
jdbc:hive2://localhost:10000/default> Closing: 0: jdbc:hive2://localhost:10000/default
onardo moraes@cluster-4c01-m:-$
```

#### Consulta.4

- select estados\_do\_brasil, total\_de\_veiculos from dados\_demograficos order by total\_de\_veiculos desc limit 3;



### Consulta.5

- select estados\_do\_brasil, populacao\_residente from dados\_demograficos order by populacao\_residente desc limit 3;

```
O: jdbc:http://localbost:10000/defaulto_select_estados_do_brasil, populacao_residente from dados_demograficos order by populacao_residente desc limit 3

INFO: Computing command(queryid-hive 202339950002102_31784316-9384-40bd-be4f-8d3sc26984af); select_estados_do_brasil, populacao_residente from dados_demograficos order by populacao_residente desc limit 3

INFO: Computerency mode is disabled, not creating a lock manager

INFO: Excursing Bive schemas, Schema(ficialSchemas)(FicialSchemas)(managerative)-hive 20239900002102_31784316-9384-40bd-be4f-8d3sc26984af); Time taken: 0.185 seconds

INFO: Computerency mode is disabled, not creating a lock manager

INFO: Lock to the computer of the computer of
```

#### Relatório:

Como análise das consultas feitas é possível afirmar que dos principais Estados que recebem royalties de petróleo (DF, RJ, ES), o Estado do RJ é o que apresenta maior incidência quando observados outros parâmetros como a quantidade de domicílios e a quantidade de população residente. Esta pode ser uma observação preliminar a ser considerada para a distribuição dos royalties, apesar de que ainda restariam muitas outras análises a serem feitas para agregar ao presente trabalho.

# Proposta de evolução do trabalho:

Como proposta de evolução do trabalho, poderão ser incluídos outros parâmetros considerados importantes como, por exemplo, Estados que possuem maior produção de petróleo em seus territórios ou aqueles que carecem de maiores investimentos em serviços de saúde e de infraestrutura.