



Big Data com Hive e Impala

Metadados

Tabelas

```
show tables
```

```
+-----+--+  
|  tab_name  |  
+-----+--+  
|  clientes  |  
| despachantes |  
| locacao    |  
| veiculos   |  
+-----+--+
```



Metadados

DESCRIBE CLIENTES

col_name	data_type	comment
idcliente	int	
cnh	string	
cpf	string	
validadecnh	date	
nome	string	
datacadastro	date	
datanascimento	date	
telefone	string	
status	string	



Metadados

DESCRIBE FORMATTED LOCACAO;

col_name	data_type	comment
# col_name	data_type	comment
idlocacao	int	NULL
idcliente	int	NULL
iddespachante	int	NULL
idveiculo	int	NULL
datalocacao	date	NULL
dataentrega	date	NULL
total	double	NULL
# Detailed Table Information	NULL	NULL
Database:	locacao	NULL
Owner:	root	NULL
CreateTime:	Mon Aug 05 18:49:21 PDT 2019	NULL
LastAccessTime:	UNKNOWN	NULL
Protect Mode:	None	NULL
Retention:	0	NULL
Location:	hdfs://quickstart.cloudera:8020/user/hive/warehouse/locacao.db/locacao	NULL
Table Type:	EXTERNAL_TABLE	NULL
Table Parameters:	NULL	NULL
	COLUMN_STATS_ACCURATE	true
	EXTERNAL	TRUE
	numFiles	1
	totalSize	3730
	transient_lastDdlTime	1565927371
# Storage Information	NULL	NULL
SerDe Library:	org.apache.hadoop.hive.serde2.lazy.LazySimpleSerDe	NULL
InputFormat:	org.apache.hadoop.mapred.TextInputFormat	NULL
OutputFormat:	org.apache.hadoop.hive ql.io.HiveIgnoreKeyTextOutputFormat	NULL
Compressed:	No	NULL
Num Buckets:	-1	NULL
Bucket Columns:	[]	NULL
Sort Columns:	[]	NULL
Storage Desc Params:	NULL	NULL
	field.delim	,
	serialization.format	,



Metadados

```
DESCRIBE DATABASE LOCACAO;
```

db_name	comment	location	owner_name	owner_type	parameters
locacao		hdfs://quickstart.cloudera:8020/user/hive/warehouse/locacao.db	root	USER	



Consultado Hcatalog

```
mysql -u root -pcloudera  
show databases;
```



Database
information_schema
cm
firehose
hue
metastore
mysql
nav
navms
oozie
retail_db
rman
sentry

Consultado Hcatalog

```
use metastore;  
show tables;
```



```
BUCKETING_COLS  
CDS  
COLUMNS_V2  
COMPACTION_QUEUE  
COMPLETED_TXN_COMPONENTS  
DATABASE_PARAMS  
DBS  
DB_PRIVS  
DELEGATION_TOKENS  
FUNCS  
FUNC_RU  
GLOBAL_PRIVS  
HIVE_LOCKS  
IDX$  
INDEX_PARAMS  
MASTER_KEYS  
METASTORE_DB_PROPERTIES  
NEXT_COMPACTION_QUEUE_ID  
NEXT_LOCK_ID  
NEXT_TXN_ID  
NOTIFICATION_LOG  
NOTIFICATION_SEQUENCE  
NUCLEUS_TABLES  
PARTITIONS  
PARTITION_EVENTS  
PARTITION_KEYS  
PARTITION_KEY_VALS  
PARTITION_PARAMS  
PART_COL_PRIVS  
PART_COL_STATS  
PART_PRIVS  
ROLES  
ROLE_MAP  
SDS  
SD_PARAMS  
SEQUENCE_TABLE  
SERDES  
SERDE_PARAMS  
SKEWED_COL_NAMES  
SKEWED_COL_VALUE_LOC_MAP  
SKEWED_STRING_LIST  
SKEWED_STRING_LIST_VALUES  
SKEWED_VALUES  
SORT_COLS  
TABLE_PARAMS  
TAB_COL_STATS  
TBLS  
TBL_COL_PRIVS  
TBL_PRIVS  
TXNS  
TXN_COMPONENTS  
TYPES  
TYPE_FIELDS  
VERSION
```

Consultado Hcatalog

◇ Bancos de Dados

```
select * from dbs;
```

DB_ID	DESC	DB_LOCATION_URI	NAME	OWNER_NAME	OWNER_TYPE
1	Default Hive database	hdfs://quickstart.cloudera:8020/user/hive/warehouse	default	public	ROLE
10	NULL	hdfs://quickstart.cloudera:8020/user/hive/warehouse/locacao.db	locacao	root	USER



Consultado Hcatalog

◇ Tabelas

```
select * from TBLS where DB_ID=10;
```

TBL_ID	CREATE_TIME	DB_ID	LAST_ACCESS_TIME	OWNER	RETENTION	SD_ID	TBL_NAME	TBL_TYPE	VIEW_EXPANDED_TEXT	VIEW_ORIGINAL_TEXT	LINK_TARGET_ID
17	1565027304	10	0	root	0	16	clientes	EXTERNAL_TABLE	NULL	NULL	NULL
18	1565027323	10	0	root	0	17	veiculos	EXTERNAL_TABLE	NULL	NULL	NULL
19	1565027346	10	0	root	0	18	despachantes	EXTERNAL_TABLE	NULL	NULL	NULL
20	1565027361	10	0	root	0	19	locacao	EXTERNAL_TABLE	NULL	NULL	NULL



Consultado Hcatalog

◇ Coluna da tabela locação;

```
select * from COLUMNS_V2 where CD_ID =  
19;
```

CD_ID	COMMENT	COLUMN_NAME	TYPE_NAME	INTEGER_IDX
19	NULL	dataentrega	date	5
19	NULL	datalocacao	date	4
19	NULL	idcliente	int	1
19	NULL	iddespachante	int	2
19	NULL	idlocacao	int	0
19	NULL	idveiculo	int	3
19	NULL	total	double	6

