Cassandra\_Cheatsheet.docx

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# Example

from cassandra.cluster import Cluster

import pandas as pd

cluster = Cluster(['10.201.4.211'])

def pandas\_factory(colnames, rows):

return pd.DataFrame(rows, columns=colnames)

session = cluster.connect('prod\_things')

session.row\_factory = pandas\_factory

for d in range(10,15):

print("Day " + str(d))

print("======")

for imo in [9539494,9444417]:

rows = session.execute("select \* from merged\_vessel\_schedule where sch\_asof='2019-03-" + str(d) + "'and vessel\_key='" + str(imo) + "|\_\_GLOBAL\_\_|vessel'")

print("IMO " + str(imo))

print("######")

rows\_pd = rows.\_current\_rows

rows\_pd = rows\_pd.sort\_values(by=['stop\_num'])

#rows\_pd = rows\_pd[['eta','etd','port\_poi\_name']]

print(rows\_pd)

print("######")

print("======")

# Examine a Table Schema and Primary Key Structure

from cassandra.cluster import Cluster

import pandas as pd

cluster = Cluster(['10.201.4.211'])

cluster.metadata.export\_schema\_as\_string()

Output:

u'CREATE KEYSPACE dse\_system\_local WITH replication = {\'class\': \'LocalStrategy\'} AND durable\_writes = true;\n\nCREATE TABLE dse\_system\_local.solr\_resources (\n core\_name text,\n resource\_name text,\n resource\_value blob,\n PRIMARY KEY (core\_name, resource\_name)\n) WITH CLUSTERING ORDER BY (resource\_name ASC)\n AND bloom\_filter\_fp\_chance = 0.01\n AND caching = {\'keys\': \'ALL\', \'rows\_per\_partition\': \'NONE\'}\n AND comment = \'\'\n AND compaction = {\'class\': \'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy\', \'max\_threshold\': \'32\', \'min\_threshold\': \'4\'}\n AND compression = {\'chunk\_length\_in\_kb\': \'64\', \'class\': \...

This can be helpful, for example, to discover the Primary Keys for a table, as in this example:

CREATE TABLE prod\_things.merged\_vessel\_schedule (\n vessel\_key text,\n sch\_asof text,\n sch\_id timeuuid,\n c\_lat decimal,\n c\_lng decimal,\n carrier\_code text,\n carrier\_name text,\n eta text,\n etd text,\n max\_eta text,\n max\_etd text,\n min\_eta text,\n min\_etd text,\n port\_poi\_fence text,\n port\_poi\_id int,\n port\_poi\_name text,\n stop\_num int,\n **PRIMARY KEY ((vessel\_key, sch\_asof), sch\_id)**\n)...