### **Amazon Athena using AWS CLI**

Firstly, need to configure the AWS CLI with appropriate user with AmazonAthenaFullAccess permission. To list the data base using AWS CLI command:

aws athena list-databases -catalaog-name AwsDataCatalog

## Athena Workgroups using AWS CLI

Configure query result for the workgroup (go to athena > workflows there we need to configure the s3 bucket for the query results)

Validate whether the query can be executed using command line interface

```
pchra@DESKTOP-06V8C9M MINGW64 ~/Desktop (master)
$ aws athena start-query-execution --query-string "select count(1) from myretail.orders"
{
    "QueryExecutionId": "26d9f254-20ec-4d36-b545-fcdcf1b88768"
}
pchra@DESKTOP-06V8C9M MINGW64 ~/Desktop (master)
$
```

## **Run Athena Queries using AWS CLI**

```
case athena start-query-execution —query-string "SELECT " FROM retail_db.orders LIMIT 5"

"QueryExecutionId": "acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6"

"Anaboustrom_Debuggow Mindows —/Debutop (master)

"as athena get-query-execution —query-execution-id

sage: ms [orbins] «command» csubcommand» [csubcommand» ...] [parameters]

o see help text, you can run:

ms help

ms «command» help

ms «command» help

ms «command» help

ms «command» help

ms «cer: error: argument —query-execution-id: expected one argument

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"as athena get-query-execution —query-execution-id acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6

"QueryExecution": {

"QueryExecution": {

"QueryExecution": "31//itvathenal/wgprimary1/acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6.",

"QueryExecution": "31//itvathenal/wgprimary1/acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6.csv"

) ToucryExecutionOntext": (),

"State: "SICCEEDED",

"SubmissionDateFine: "2022-03-10723:11:20, 948000-06:00",

"CompletionDateFine: "2022-03-10723:11:21, 711000-06:00"

, "SubmissionDateFine: "2022-03-10723:11:21, 711000-06:00"

, "CompletionDateFine: "2022-03-10723:11:21, 711
```

```
ochra@DESKTOP-06v8C9M MINGW64 ~/Desktop (master)
i aws s3 cp s3://itvathenal/wgprimary1/acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6.csv .
lownload: s3://itvathenal/wgprimary1/acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6.csv to .\acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6.csv
ochra@DESKTOP-06v8C9M MINGW64 ~/Desktop (master)
i view acaf0d7c-1f80-44b3-a65d-0a3da2b3dbc6.csv
ochra@DESKTOP-06v8C9M MINGW64 ~/Desktop (master)
```

```
MINGW64:/c/Users/pchra/Desktop

order_id", "order_date", "order_customer_id", "order_status"

1", "2013-07-25 00:00:00.0", "1599", "CLOSED"

"2", "2013-07-25 00:00:00.0", "256", "PENDING_PAYMENT"

3", "2013-07-25 00:00:00.0", "12111", "COMPLETE"

4", "2013-07-25 00:00:00.0", "8827", "CLOSED"

"5", "2013-07-25 00:00:00.0", "11318", "COMPLETE"
```

### Get Metadata for all the tables from the selected database using AWSCLI

```
hra@DESKTOP-06V8C9M MINGW64 ~/Desktop (master)
aws athena list-table-metadata --catalog-name AwsDatacatalog --database-name myretail
   "TableMetadataList": [
               "Name": "orders",
               "CreateTime": "2022-03-10T22:38:30-06:00",
               "LastAccessTime": "1969-12-31T18:00:00-06:00",
               "TableType": "EXTERNAL_TABLE", "Columns": [
                           "Name": "order_id",
"Type": "bigint"
                          "Name": "order_date",
"Type": "string"
                          "Name": "order_customer_id",
"Type": "bigint"
                          "Name": "order_status",
"Type": "string"
              ],
"PartitionKeys": [],
": {
               "Parameters": {
                     "CrawlerSchemaDeserializerVersion": "1.0",
                    "CrawlerSchemabeserTaTTzerVersion": "1.0",
"CrawlerSchemaSerializerVersion": "1.0",
"EXTERNAL": "TRUE",
"UPDATED_BY_CRAWLER": "retail_crawler",
"areColumnsQuoted": "false",
"averageRecordSize": "39",
                    "classification": "csv",
"columnsOrdered": "true",
"compressionType": "none",
                    "delimiter": ",",
"inputformat": "org.apache.hadoop.mapred.TextInputFormat",
                    "location": "s3://iretail-db/orders",
"objectCount": "1",
                     "outputformat": "org.apache.hadoop.hive.ql.io.HiveIgnoreKeyTextOutputFormat",
```

Get Metadata for particular Table from database.

```
### Comparison of the Comparis
```

# Drop table using AWS CLI

```
OwnerDescribe Office (Packets)

- was attens start-query-execution - query-string "GROP TABLE myretail.orders"

- "QueryExecution[1"; "48620585-15a9-49ba-919-194371a3fado"

- chradic Settop-newice MINGRA4 -/Desktop (master)

- and attens get_query-execution -- query-execution-id 4862b585-15a9-49ba-b919-194371a3fado

- "QueryExecution": {
    "QueryExecution": {
    "QueryExecution": {
    "QueryExecution": {
    "QueryExecution off; "4860b585-15a9-49ba-b919-194371a3fado",
    "QueryExecution off; "4860b585-15a9-49ba-b919-194371a3fado",
    "QueryExecution office office
```

## Run Create Table AS SELECT under Athena using AWS CLI:

#### View data

```
chraBDESKTOP-ORVACOM NINGM64 ~/Desktop (master)
ass athena start-query-execution --query-string "SELECT = FROM retail_db.order_items limit 10"
    "QueryExecutionId": "93baea55-b5de-4cla-993f-b79522228908"

chraBDESKTOP-ORVACOM NINGM64 ~/Desktop (master)
ass athena get-query-execution --query-execution-id 93baea55-b5de-4cla-993f-b79522228908

"QueryExecution": {
    "QueryExecution": "93baea55-b5de-4cla-993f-b79522228908",
    "queryExecution": "93baea55-b5de-4cla-993f-b79522228908",
    "statementype": "POWO catal_db.order_items limit 10",
    "statementype": "Governation": {
        "QueryExecutionContext": {},
    "Statementype": "Successor",
    "state": "$I,
    "State state": "$I,
    "State state s
```

```
col0", "col1", "col2", "col3", "col4", "col5"
'1", "1", "957", "1", "299.98", "299.98"
'2", "2", "1073", "1", "199.99", "199.99"
'3", "2", "502", "5", "250.0", "50.0"
'4", "2", "403", "1", "129.99", "129.99"
'5", "4", "897", "2", "49.98", "24.99"
'6", "4", "365", "5", "299.95", "59.99"
'7", "4", "502", "3", "150.0", "50.0"
'8", "4", "1014", "4", "199.92", "49.98"
'9", "5", "957", "1", "299.98", "299.98"
'10", "5", "365", "5", "299.95", "59.99"
```