# CREATE TABLES IN HIVE AND EXECUTE QUERIES

**hadoop@ubuntu:~$ ls /usr/share/java**

java-atk-wrapper.jar java\_defaults.mk libintl-0.21.jar libintl.jar

# hadoop@ubuntu:~$ wget https://dev.mysql.com/get/Downloads/Connector-J/mysql-connector-j-9.0.0.ta.gz

# --2024-09-13 12:08:52--

https://dev.mysql.com/get/Downloads/Connector-J/mysql-connector-j-9.0.0.tar.gz Resolving dev.mysql.com (dev.mysql.com) 23.58.39.183,

2600:140f:5e00:199::2e31, 2600:140f:5e00:18b::2e31

Connecting to dev.mysql.com (dev.mysql.com)|23.58.39.183|:443 connected.

HTTP request sent, awaiting response 302 Moved Temporarily

Location:

https://cdn.mysql.com//Downloads/Connector-J/mysql-connector-j-9.0.0.tar.gz [following]

--2024-09-13 12:08:53--

https://cdn.mysql.com//Downloads/Connector-J/mysql-connector-j-9.0.0.tar.gz Resolving cdn.mysql.com (cdn.mysql.com)... 23.58.42.45, 2600:140f:5e00:187::1d68, 2600:140f:5e00:19e::1d68

Connecting to cdn.mysql.com (cdn.mysql.com)|23.58.42.45|:443 connected.

HTTP request sent, awaiting response 200 OK

Length: 4469329 (4.3M) [application/x-tar-gz] Saving to: ‘mysql-connector-j-9.0.0.tar.gz’

mysql-connector-j-9.0 100%[======================>] 4.26M 6.57MB/s

in 0.6s

2024-09-13 12:08:54 (6.57 MB/s) - ‘mysql-connector-j-9.0.0.tar.gz’ saved [4469329/4469329]

# hadoop@ubuntu:~$ tar -xvzf mysql-connector-j-9.0.0.tar.gz hadoop@ubuntu:~$ ls

apache-hive-3.1.3-bin hadoop-3.3.6.tar.gz pig

apache-hive-3.1.3-bin.tar.gz hadoopdata pig-0.16.0.tar.gz derby.log Music Public

Desktop mysql-connector-j-9.0.0 snap

Documents mysql-connector-j-9.0.0.tar.gz Templates

Downloads mysql-connector-java-8.0.15.jar Videos

hadoop Pictures

**hadoop@ubuntu:~$ cd mysql-connector-j-9.0.0 hadoop@ubuntu:~/mysql-connector-j-9.0.0$ ls** build.xml INFO\_BIN LICENSE README

CHANGES INFO\_SRC mysql-connector-j-9.0.0.jar src

# hadoop@ubuntu:~/mysql-connector-j-9.0.0$ sudo cp

**mysql-connector-j-9.0.0.jar /usr/share/java/mysql-connector.java.jar [sudo] password for hadoop:**

# hadoop@ubuntu:~/mysql-connector-j-9.0.0$ sudo cp mysql-connector-j-9.0.0.jar

**/home/hadoop/apache-hive-3.1.3-bin/lib/mysql-connector-java.jar hadoop@ubuntu:~/mysql-connector-j-9.0.0$ ls**

# $HIVE\_HOME/bin/schematool

/home/hadoop/apache-hive-3.1.3-bin/bin/schematool

# hadoop@ubuntu:~/mysql-connector-j-9.0.0$

**hadoop@ubuntu:~/mysql-connector-j-9.0.0$ schematool -initSchema**

# -dbType mysql --verbose

No rows affected (0.004 seconds)

0: jdbc:mysql://localhost/metastore> !closeall

Closing: 0: jdbc:mysql://localhost/metastore?createDatabaseIfNotExist=true beeline>

beeline> Initialization script completed

# schemaTool completed

**hadoop@ubuntu:~/mysql-connector-j-9.0.0$ hive**

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in

[jar:file:/home/hadoop/apache-hive-3.1.3-bin/lib/log4j-slf4j-impl-2.17.1.jar!/org/slf 4j/impl/StaticLoggerBinder.class]

SLF4J: Found binding in [jar:file:/home/hadoop/hadoop/share/hadoop/common/lib/slf4j-reload4j-1.7.36.jar!/ org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: See <http://www.slf4j.org/codes.html#multiple_bindings>for an explanation. SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory] Hive Session ID = 678d5628-cbdd-4c89-93ec-b44e8ccd61ce

Logging initialized using configuration in

jar:file:/home/hadoop/apache-hive-3.1.3-bin/lib/hive-common-3.1.3.jar!/hive-log4j 2.properties Async: true

Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive

# 1.X releases.

**Hive Session ID = 16b26a3d-b4b5-4a47-80c8-803f7e82a0ac hive> show databases;**

# OK

**default**

# Time taken: 0.559 seconds, Fetched: 1 row(s) hive>

**5A HIVE COMMANDS**

# hadoop@ubuntu:~$ hive

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in

[jar:file:/home/hadoop/apache-hive-3.1.3-bin/lib/log4j-slf4j-impl-2.17.1.jar!/org/slf 4j/impl/StaticLoggerBinder.class]

SLF4J: Found binding in [jar:file:/home/hadoop/hadoop/share/hadoop/common/lib/slf4j-reload4j-1.7.36.jar!/ org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: See <http://www.slf4j.org/codes.html#multiple_bindings>for an explanation. SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory] Hive Session ID = 75d9d072-33d3-4769-b257-150080dab6bb

Logging initialized using configuration in

jar:file:/home/hadoop/apache-hive-3.1.3-bin/lib/hive-common-3.1.3.jar!/hive-log4j 2.properties Async: true

Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive

1.X releases.

Hive Session ID = d2b98337-9fb3-4319-bdb3-321c9305ac3f hive> create database Finanacial;

OK

Time taken: 0.472 seconds hive> use Financial;

OK

Time taken: 0.085 seconds

hive> create table david\_table(id int, name String); OK

Time taken: 0.962 seconds

hive> **insert into finance\_table values (1,'Alice'),(2,'Bob'),(3,'Charlie');** Query ID = hadoop\_20240913125807\_4b8ec766-dc28-44f6-ab0a-1253fa7d3e1c Total jobs = 3

Launching Job 1 out of 3

Number of reduce tasks determined at compile time: 1

In order to change the average load for a reducer (in bytes): set hive.exec.reducers.bytes.per.reducer=<number>

In order to limit the maximum number of reducers: set hive.exec.reducers.max=<number>

In order to set a constant number of reducers: set mapreduce.job.reduces=<number>

Job running in-process (local Hadoop)

2024-09-13 12:58:12,694 Stage-1 map = 0%, reduce = 0%

2024-09-13 12:58:16,005 Stage-1 map = 100%, reduce = 100%

Ended Job = job\_local504772510\_0001 Stage-4 is selected by condition resolver. Stage-3 is filtered out by condition resolver. Stage-5 is filtered out by condition resolver.

Moving data to directory hdfs://localhost:9000/user/hive/warehouse/financials.db/finance\_table/.hive-stagin g\_hive\_2024-09-13\_12-58-07\_881\_6581065941079588430-1/-ext-10000

Loading data to table financials.finance\_table MapReduce Jobs Launched:

Stage-Stage-1: HDFS Read: 0 HDFS Write: 208 SUCCESS Total MapReduce CPU Time Spent: 0 msec

OK

Time taken: 10.489 seconds

**hive> create view myview as select name.id from finace\_table;** FAILED: SemanticException [Error 10001]: Line 1:42 Table not found 'finace\_table'

# hive> create view myview as select name.id from finance\_table;

FAILED: SemanticException [Error 10042]: Line 1:29 . Operator is only supported on struct or list of struct types 'id'

# hive> create view myview as select name,id from finance\_table; OK

Time taken: 0.328 seconds **hive> select \* from myview;** OK

Alice 1

Bob 2

Charlie 3

Time taken: 0.249 seconds, Fetched: 3 row(s)

# hive> describe finance\_table;

OK

id int

name string

Time taken: 0.108 seconds, Fetched: 2 row(s)

# hive> alter table finance\_table add columns(age int);

OK

Time taken: 0.242 seconds **hive> describe finance\_table;** OK

id int

name string

age int

Time taken: 0.088 seconds, Fetched: 3 row(s)

# hive> quit;