BDA Lab 09

- Jainil Trivedi (CE166)

AIM: SQL Crud Operations (Hive)/ Distributed Databases (HBase)

Installation Steps:



Index of /hive

	<u>Name</u>	Last modifi	.ed	<u>Size</u>	<u>Description</u>
.	Parent Directory			-	
	hive-1.2.2/	2022-06-17	12:34	-	
	hive-2.3.9/	2022-06-17	12:34	-	
	hive-3.1.2/	2022-06-17	12:34	-	
	hive-3.1.3/	2022-06-17	12:34	-	
	hive-4.0.0-alpha-1/	2022-06-17	12:34	-	
	hive-standalone-metastore-3.0.0/	2022-06-17	12:34	-	
\circ	hive-storage-2.7.3/	2022-06-17		-	
	hive-storage-2.8.1/	2022-06-17	12:34	-	
	stable-2/	2022-06-17	12:34	-	
?	KEYS	2022-03-23	18:19	99K	

Index of /hive/hive-3.1.3

	<u>Name</u>	<u>Last modified</u>	<u>Size</u> <u>I</u>	Description
♣	Parent Directory		-	
	apache-hive-3.1.3-bin.tar.gz	2022-04-08 17:42	312M	
	<pre>apache-hive-3.1.3-bin.tar.gz.asc</pre>	2022-04-08 17:42	488	
	<pre>apache-hive-3.1.3-bin.tar.gz.sha256</pre>	2022-04-08 17:42	95	
	<pre>apache-hive-3.1.3-src.tar.gz</pre>	2022-04-08 17:42	25M	
	<pre>apache-hive-3.1.3-src.tar.gz.asc</pre>	2022-04-08 17:42	488	
	<pre>apache-hive-3.1.3-src.tar.gz.sha256</pre>	2022-04-08 17:42	95	

Use: start-dfs.sh; start-yarn.sh; start-history-server.sh

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$ start-dfs.sh
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting namenodes on [localhost]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting datanodes
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting secondary namenodes [localhost]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
2022-07-25 17:08:56,211 WARN util.NativeCodeLoader: Unable to load native-hadoop library for applicable
```

Now use command: jps to verify if above commands were successful or not.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$ jps
26130 NameNode
21349 ResourceManager
21686 NodeManager
26312 DataNode
27114 JobHistoryServer
26652 SecondaryNameNode
28684 Jps
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$
```

Download and extract hive to /opt/hive.

adding hive path in bashrc

HIVE_HOME=<dirWhereYouInstalledHive> into bash profile ~/.bashrc file

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/$ export HIVE_HOME="/home/hadoop/apache-hive-3.1.3-bin"
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/$ export PATH=$HIVE_HOME/bin:$PATH
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/$ echo $HIVE_HOME
/home/hadoop/apache-hive-3.1.3-bin
```

Make The following directories in hadoop.

```
hadoop fs -mkdir -p /tmp
```

hadoop fs -mkdir -p /user/hive/warehouse

hadoop fs -chmod g+w /tmp

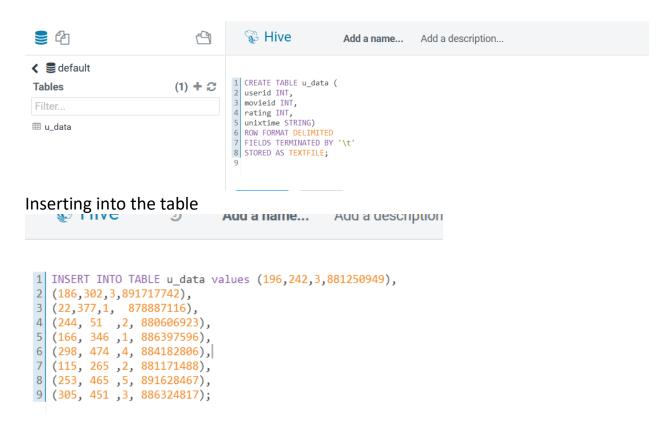
hadoop fs -chmod g+w /user/hive/warehouse

To use the Hive CLI from the shell use command:

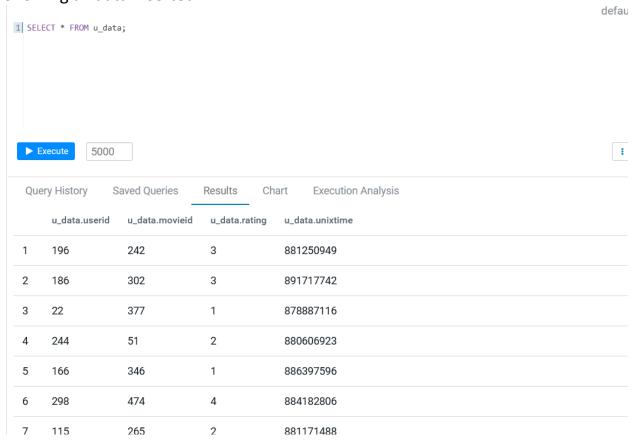
\$HIVE HOME/bin/hive

HIVE Online Platform: https://demo.gethue.com/hue/editor/?type=6

Creating the table



Showing all data inserted.



Finding total number of records in u_data.



Drop Table

