EXP NO: 5

INSTALLATION OF HIVE

\$wget https://archive.apache.org/dist/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz

\$tar xvzf apache-hive-3.1.2-bin.tar.gz

```
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--2024-09-18-19-14-81-- https://archive.apache.org/dist/hive/hive-3.1.2-bin.tar.gz  
Resolving archive.apache.org (archive.apache.org)...2021-15/21-818-8941:2, 63-18-89-81-99  
Connecting to archive.apache.org (archive.apache.org)...2021-15/21-818-8941:2, 63-18-89-81-99  
Connecting to archive.apache.org (archive.apache.org)12-801:49:1a-80841:2|:443... connected.  
Hittp://archive.apache.org.garchive.apache.org/lize/sia-80841:2|:443... connected.  
Hittp://archive.apache.org.garchive.apache.org/lize/sia-80841:2|:443... connected.  
Hittp://archive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.org.garchive.apache.o
```

\$mv apache-hive-3.1.2-bin hive

\$nano ~/.bashrc

```
export HIVE_HOME="/home/haresh/apache-hive-3.1.2-bin"
export HIVE_CONF_DIR=$HIVE_HOME/conf
export PATH=$PATH:$HIVE_HOME/bin
export HADOOP_USER_CLASSPATH_FIRST=true
```

\$source ~/.bashrc

\$cd hive

\$cp conf/hive-default.xml.template conf/hive-site.xml

\$nano conf/hive-site.xml

```
export HADOOP_HOME=$HADOOP_HOME
export HIVE_CONF_DIR=$HIVE_CONF_DIR
```

\$start-all.sh

\$ jps

```
Apparent-view-bit-2-1-2-bits provided p
```

\$hdfs dfs -mkdir /user

\$hdfs dfs -mkdir /user/hive

\$hdfs dfs -mkdir/user/hive/warehouse

\$hdfs dfs -mkdir /user/tmp

\$hdfs dfs -chmod g+w /user/tmp

\$hdfs dfs -chmod g+w /user/hive/warehouse

\$cd \$HIVE HOME/bin

\$schematool -initSchema -dbType derby

```
AMANINE: Use CTRL-C to abort.

Starting namenodes on [localhost]

Starting secondary memodes [ubuntu]

Starting secondary memodes [ubuntu]

Starting secondary memodes [ubuntu]

Starting namenodes [ubuntu]

Starting name
```

Shive

>show databases;

> CREATE DATABASE financials;

```
hive> CREATE DATABASE financials;
OK
Time taken: 0.41 seconds
```

> use financials;

```
hive> use financials;
OK
Time taken: 0.031 seconds
```

> CREATE TABLE finance_table(id INT, name STRING);

```
hive> CREATE TABLE finance_table (id INT, name STRING);
OK
Time taken: 0.552 seconds
```

> INSERT INTO finance table VALUES (1, 'Alice'), (2, 'Bob'), (3, 'Charlie');

```
hive> INSERT INTO finance_table VALUES (1, 'Alice'), (2,'Bob'), (3,'Charlie');
Query ID = haresh_20240912212701_f51e1fcd-d01a-4b83-8d6e-bf0388e6e714

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>
Starting Job = job_1726155698102_0001, Tracking URL = http://fedora:8088/proxy 2_0001/
```

> CREATE VIEW myview AS SELECT name, id FROM finance_table;

```
hive> CREATE VIEW myview AS SELECT name, id FROM finance_table;
OK
Time taken: 0.256 seconds
```

> SELECT * FROM myview;

```
hive> SELECT * FROM myview;

OK
Alice 1
Bob 2
Charlie 3
Time taken: 0.213 seconds, Fetched: 3 row(s)
```

> DESCRIBE finance_table;

```
hive> DESCRIBE finance_table;
OK
id int
name string
Time taken: 0.075 seconds, Fetched: 2 row(s)
```

> ALTER TABLE finance_table ADD COLUMNS (age INT);

```
hive> ALTER TABLE finance_table ADD COLUMNS (age INT);
OK
Time taken: 0.126 seconds
hive> quit;
```

>quit;