EXP NO: 5

Installation Of Hive

Environment Setting for Hive :

Configure Hive (hive-env.sh, hive-site.xml) :

```
                                                                    hadoop@fedora:~/hive/conf
  GNU nano 7.2                                                        hive-site.xml
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?><!--
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  limitations under the License.
--><configuration>
  <!-- WARNING!!! This file is auto generated for documentation purposes ONLY! -->
  <!-- WARNING!!! Any changes you make to this file will be ignored by Hive.   -->
  <!-- WARNING!!! You must make your changes in hive-site.xml instead.         -->
  <!-- Hive Execution Parameters -->
  <property>
    <name>hive.metastore.client.cache.v2.enabled</name>
    <value>true</value>
    <description>This property enables a Caffeine Cache for Metastore client</description>
  </property>
  <property>
    <name>hive.metastore.client.cache.v2.maxSize</name>
    <value>1Gb</value>
    <description>
      Expects a byte size value with unit (blank for bytes, kb, mb, gb, tb, pb).
      Set the maximum size (number of bytes) of the metastore client cache (DEFAULT: 1GB). Only in effect when the cache is enabled
    </description>
  </property>
  <property>
    <name>hive.metastore.client.cache.v2.recordStats</name>
    <value>false</value>
    <description>This property enables recording metastore client cache stats in DEBUG logs</description>
  </property>
  <property>
    <name>dfs.xattr.supported.only.on.reserved.namespace</name>
    <value>false</value>
    <description>DFS supports xattr only on Reserved Name space (/.reserved/raw)</description>
```

Connecting Hive to SQL Database with JDBC :

!connect jdbc:mysql://localhost:3306/<database> <username> <password>

```
Beeline version 4.0.0 by Apache Hive
beeline> shiw databases;
No current connection
beeline> !connect jdbc:mysql://localhost:3306/hive root admin
Connecting to jdbc:mysql://localhost:3306/hive
Connected to: MySQL (version 8.0.39)
Driver: MySQL Connector/J (version mysql-connector-java-8.0.15 (Revision: 79a4336f140499bd22dd07f02b708e163844e3d5))
Transaction isolation: TRANSACTION_REPEATABLE_READ
0: jdbc:mysql://localhost:3306/hive> show databses;
Error: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'databses' at line 1 (state
=42000,code=1064)
0: jdbc:mysql://localhost:3306/hive> show databases;
+--------------------+
|      Database      |
+--------------------+
| hive               |
| information_schema |
| metastore          |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
6 rows selected (0.043 seconds)
0: jdbc:mysql://localhost:3306/hive> create database financials;
1 row affected (2.151 seconds)
0: jdbc:mysql://localhost:3306/hive> use financials
. . . . . . . . . . . . . . . .> ;
No rows affected (0.004 seconds)
0: jdbc:mysql://localhost:3306/hive> CREATE TABLE finance_table( id INT, name STRING );
Error: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'STRING )' at line 1 (state
=42000,code=1064)
0: jdbc:mysql://localhost:3306/hive> CREATE TABLE finance_table(id integer, name varchar(25));
No rows affected (0.592 seconds)
```

```
0: jdbc:mysql://localhost:3306/hive> CREATE TABLE finance_table(id integer, name varchar(25));
No rows affected (0.592 seconds)
0: jdbc:mysql://localhost:3306/hive> INSERT INTO finance_tableVALUES (1, 'Alice'), (2, 'Bob'), (3, 'Charlie');
Error: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1, 'Alice'), (2, 'Bob'),
3, 'Charlie')' at line 1 (state=42000,code=1064)
0: jdbc:mysql://localhost:3306/hive> INSERT INTO finance_tableVALUES (1, 'Alice');
Error: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1, 'Alice')' at line 1 (st
ate=42000,code=1064)
0: jdbc:mysql://localhost:3306/hive> INSERT INTO finance_table VALUES (1, 'Alice'), (2, 'Bob'), (3, 'Charlie');
3 rows affected (0.547 seconds)
0: jdbc:mysql://localhost:3306/hive> CREATE VIEW myview AS SELECT name, id FROM finance_table;
No rows affected (0.272 seconds)
0: jdbc:mysql://localhost:3306/hive> SELECT*FROM myview;
+---------+-----+
|  name   | id  |
+---------+-----+
| Alice   | 1   |
| Bob     | 2   |
| Charlie | 3   |
+---------+-----+
3 rows selected (0.012 seconds)
0: jdbc:mysql://localhost:3306/hive> DESCRIBE finance_table;
+-------+-------------+------+------+---------+--------+
| Field |    Type     | Null | Key  | Default | Extra  |
+-------+-------------+------+------+---------+--------+
| id    | int         | YES  |      | NULL    |        |
| name  | varchar(25) | YES  |      | NULL    |        |
+-------+-------------+------+------+---------+--------+
2 rows selected (0.021 seconds)
```

Result :

Thus Hive is successfully installed and connected with SQL database.