Exp.No: 5

Install Hive and Create Tables in Hive and write queries to access the data in the table

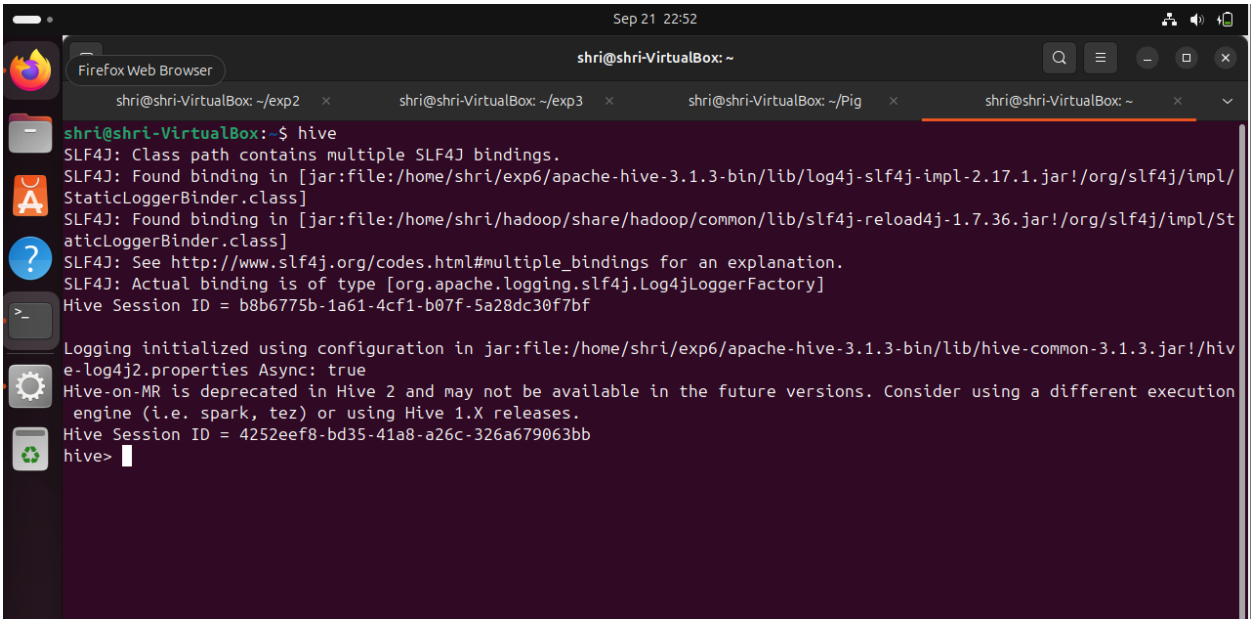
AIM:

To install Hive, design and test various schema models to optimize data storage and retrieval using Hive.

PROCEDURE:

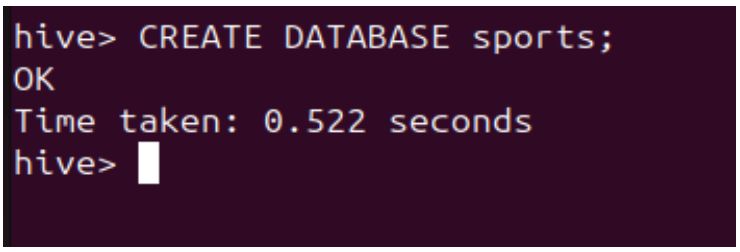
Step 1: Start Hive Open a terminal and start Hive by running:

hive



Step 2: Create a Database: Create a new database in Hive:

hive> CREATE DATABASE sports;



Step 3: Use the Database: Switch to the newly created database:

hive> USE sports;

```
hive> USE sports;
OK
Time taken: 0.066 seconds
hive>
```

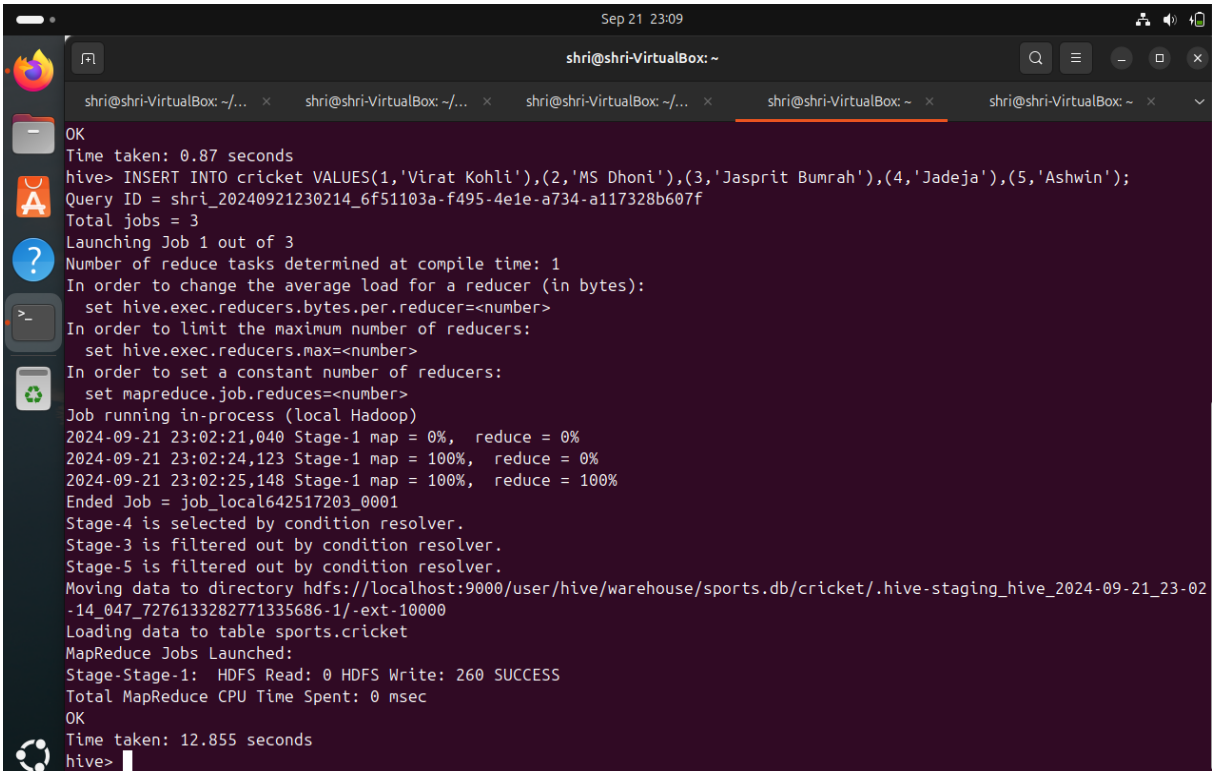
Step 4: Create a Table: Create a simple table in your database:

hive> CREATE TABLE cricket(id INT, name STRING);

```
hive> CREATE TABLE cricket(id INT , name STRING);
OK
Time taken: 0.87 seconds
hive>
```

Step 5: Load Sample Data: You can insert sample data into the table:

hive> INSERT INTO cricket VALUES (1, ‘Virat Kohli’),(2, 'MS Dhoni'),(3, 'Jasprit Bumrah'),(4,’Jadeja),(5,’Ashwin’);



Step 6: Query Your Data: Use SQL-like queries to retrieve data from your table:
hive> CREATE VIEW mycricket AS SELECT id, name FROM cricket;

```
hive> CREATE VIEW mycricket AS SELECT id,name FROM cricket;
OK
Time taken: 2.702 seconds
hive>
```

Step 7: View the data: To see the data in the view, you would need to query the view

hive> SELECT * FROM mycricket;

```
hive> Select * FROM mycricket;
OK
1       Virat Kohli
2       MS Dhoni
3       Jasprit Bumrah
4       Jadeja
5       Ashwin
Time taken: 0.595 seconds, Fetched: 5 row(s)
```

Step 8: Describe a Table: You can describe the structure of a table using the DESCRIBE command:

hive> DESCRIBE cricket;

```
hive> DESCRIBE cricket;
OK
id                      int
name                    string
Time taken: 0.189 seconds, Fetched: 2 row(s)
```

Step 9: Alter a Table: You can alter the table structure by adding a new column:
hive> ALTER TABLE cricket ADD COLUMNS(runs_scored INT);

```
hive> ALTER TABLE cricket ADD COLUMNS(runs_scored INT);
OK
Time taken: 0.384 seconds
hive>
```

Step 10: Quit Hive: To exit the Hive CLI, simply type:
hive> quit;

```
hive> quit;
shri@shri-VirtualBox:~$
```

RESULT:

Thus, the usage of various commands in Hive has been successfully completed.