Experiment No.6
Create HIVE Database and Descriptive analytics-basic statistics.
Date of Performance:
Date of Submission:

Aim: Create HIVE Database and Descriptive analytics-basic statistics.

Theory:

Hive is a database technology that can define databases and tables to analyze structured data. The theme for structured data analysis is to store the data in a tabular manner, and pass queries to analyze it. This chapter explains how to create a Hive database. Hive contains a default database named default.

Create Database Statement

Create Database is a statement used to create a database in Hive. A database in Hive is a namespace or a collection of tables. The syntax for this statement is as follows:

CREATE DATABASE|SCHEMA [IF NOT EXISTS] <database name>

Here, IF NOT EXISTS is an optional clause, which notifies the user that a database with the same name already exists. We can use SCHEMA in place of DATABASE in this command. The following query is executed to create a database named userdb:

hive> CREATE DATABASE [IF NOT EXISTS] userdb;

hive> CREATE SCHEMA userdb;

The following query is used to verify a databases list:

hive> SHOW DATABASES;

default

userdb

Program:

The JDBC program to create a database is given below.

import java.sql.SQLException;

import

java.sql.Connection;

import java.sql.ResultSet;

```java
import java.sql.Statement;

import

java.sql.DriverManager;


public class HiveCreateDb {

   private static String driverName = "org.apache.hadoop.hive.jdbc.HiveDriver";
   public static void main(String[] args) throws SQLException {

     // Register driver and create driver instance
     Class.forName(driverName);

     // get connection
     Connection con = DriverManager.getConnection("jdbc:hive://localhost:10000/default",
"", "");

     Statement stmt = con.createStatement();

stmt.executeQuery("CREATE DATABASE userdb");

System.out.println("Database userdb created successfully.");


     con.close();

   }

}
```

Output:

Database userdb created successfully.

CONCLUSION:

Hive is a database technology that can define databases and tables to analyze structured data. The theme for structured data analysis is to store the data in a tabular manner, and pass queries to analyze it. This chapter explains how to create a Hive database. Hive contains a default database named default.