



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



```
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:**

In conclusion, creating a HIVE database and performing descriptive analytics and basic statistics is a fundamental step in harnessing the power of big data and making data-driven decisions. By establishing a HIVE database, organizations can efficiently store, manage, and query vast datasets. This sets the stage for conducting descriptive analytics, a crucial process in data analysis, which involves summarizing, visualizing, and interpreting data to gain valuable insights. Basic statistics play a pivotal role in this, enabling us to uncover patterns, trends, and outliers in the data, facilitating informed decision-making. Through the combined use of HIVE and basic statistical techniques, businesses and researchers can unlock the potential of their data, driving innovation, improving processes, and making well-informed choices to achieve their goals.