



AY: 2025-26

Class:		Semester:	
Course Code:		Course Name:	

Name of Student:	BARI ANKIT VINOD
Roll No. :	61
Experiment No.:	6
Title of the Experiment:	Create HIVE Database and Descriptive analytics- basic statistics
Date of Performance:	
Date of Submission:	

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Performance	5	
Understanding	5	
Journal work and timely submission	10	
Total	20	

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations(BE)
Performance	4-5	2-3	1
Understanding	4-5	2-3	1
Journal work and timely submission	8-10	5-8	1-4

Checked by**Name of Faculty :****Signature :****Date :**



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.

OUTPUT / OBSERVATION:

Hive was configured successfully, and a database named student_db was created.

Tables were loaded with sample student data.

Descriptive queries like COUNT, AVG, MAX, and MIN were executed successfully.

Example result:

Total Students: 50

Average Marks: 72.8

Highest Marks: 98

Lowest Marks: 41

CONCLUSION:

The Hive database was created successfully, and descriptive statistics were computed using HiveQL.

This experiment demonstrated Hive's capability to perform large-scale data summarization and basic analytics efficiently using SQL-like queries.