

HIVE - CREATE DATABASE

http://www.tutorialspoint.com/hive/hive_create_database.htm

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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;
```

or

```
hive> CREATE SCHEMA userdb;
```

The following query is used to verify a databases list:

```
hive> SHOW DATABASES;
default
userdb
```

JDBC 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();
    }
}
```

Save the program in a file named HiveCreateDb.java. The following commands are used to

compile and execute this program.

```
$ javac HiveCreateDb.java  
$ java HiveCreateDb
```

Output:

```
Database userdb created successfully.
```