SNS COLLEGE OF TECHNOLOGY

Coimbatore-35

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF MCA

UNIT IV – Java Database Connectivity with MySQL

23CAT606 – Java Programming

I YEAR II SEM

Sample Program

Java Database Connectivity with MySQL

1. **Driver class: com.mysql.jdbc.Driver**.
2. **Connection URL: jdbc:mysql://localhost/student**
    - where jdbc is the API
    - mysql is the database
    - localhost is the server name
    - student is the database name
1. **Username:** The default username for the mysql database is **root**.
2. **Password:** It is the password given by the user at the time of installing the mysql database. In this example, we are going to use root as the password.

Create the table

```
create database student;
use student;
create table stud(sno int(10),mark int(3));
```

Create the table

To connect java application with the mysql database, **mysqlconnector.jar** file is required to be loaded.

download the jar file mysql-connector.jar

Two ways to load the jar file:

Paste the mysqlconnector.jar file in jre/lib/ext folder

Set classpath

1) Paste the mysqlconnector.jar file in JRE/lib/ext folder:

Download the **mysqlconnector.jar** file.

Go to jre/lib/ext folder and paste the jar file here.

2) Set classpath:

Create the table

There are two ways to set the classpath:

temporary

permanent

How to set the temporary classpath

open command prompt and write:

C:>set classpath=c:\folder\mysql-connector-java-5.0.8-bin.jar;

How to set the permanent classpath

Go to environment variable then click on new tab.

In variable name write **classpath** and in variable value paste the path to the mysqlconnector.jar file by appending

mysqlconnector.jar;.; as C:\folder\mysql-connector-java-5.0.8-bin.jar;.;

JDBC

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
```

JDBC

```
public class Sconnection {
public static void main(String args[]){
try{
Class.forName("com.mysql.jdbc.Driver");
Connection con = DriverManager.getConnection("jdbc:mysql://localhost/student","root","");
Statement st = con.createStatement();
ResultSet rs = st.executeQuery("select * from login");
System.out.println("S.No"+"          "+"Mark");
```

JDBC

```
System.out.println("---------------------------------");
while(rs.next()){
System.out.println(rs.getString(1)+"        "+rs.getString(2));
}
System.out.println("---------------------------------");
con.close();
}catch(Exception e){
e.printStackTrace();
}}}
```


Thank
you