**JDBC**

Connecting to Database through Java.

**package** connection;

**import** java.sql.\*;

**public** **class** DBconnection {

**public** **static** **void** main(String[] args) {

**try**{

Class.*forName*("com.mysql.cj.jdbc.Driver");

Connection con=DriverManager.*getConnection*(

"jdbc:mysql://localhost:3306/vit","root","Shaikriyaz@26");

System.***out***.println(con);

}

**catch** (Exception e){System.***out***.println("went wrong");}

}

}

Select data from table with java

Or

Printing student table in vit database using java

**package** connection;

**import** java.sql.\*;

**public** **class** DBconnection {

**public** **static** **void** main(String[] args) {

**try**{

Class.*forName*("com.mysql.cj.jdbc.Driver");

Connection con=DriverManager.*getConnection*(

"jdbc:mysql://localhost:3306/vit","root","Shaikriyaz@26");

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery("select \* from student");

// Stores in data in obeject rs

**while**(rs.next())

System.***out***.println(rs.getInt(1)+" "+rs.getString(2) +" "+ rs.getInt(3));

con.close();

}**catch** (Exception e){System.***out***.println("went wrong");}

}

}

**CRUD OPERATIONS IN JDBC**

**CREATE READ UPDATE DELETE**

**package** crud\_operations;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**public** **class** CRUD\_Operations {

**public** **static** **void** main(String[] args) {

CRUD\_Operations objTest = **new** CRUD\_Operations();

// CREATE

objTest.create\_data("103", "manoj", 55);

objTest.create\_data("104", "karthick", 65);

// READ

objTest.read\_data();

// UPDATE

objTest.update\_data("103", "Manoj Kumar", 75);

// DELETE

objTest.delete\_data("104");

}

**public** **void** create\_data(String sl\_no, String name, **int** mark) {

DB\_Connection obj\_DB\_Connection = **new** DB\_Connection();

Connection connection = obj\_DB\_Connection.get\_connection();

PreparedStatement ps = **null**;

**try** {

String query = "INSERT INTO student VALUES (?, ?, ?)";

ps = connection.prepareStatement(query);

ps.setString(1, sl\_no);

ps.setString(2, name);

ps.setInt(3, mark);

System.***out***.println(ps);

ps.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e);

}

}

**public** **void** read\_data() {

DB\_Connection obj\_DB\_Connection = **new** DB\_Connection();

Connection connection = obj\_DB\_Connection.get\_connection();

**try** {

String query = "SELECT \* FROM student";

PreparedStatement ps = connection.prepareStatement(query);

ResultSet rs = ps.executeQuery();

**while** (rs.next()) {

System.***out***.println("ID: " + rs.getString("sl\_no") +

", Name: " + rs.getString("name") +

", Mark: " + rs.getInt("mark"));

}

} **catch** (Exception e) {

System.***out***.println(e);

}

}

**public** **void** update\_data(String sl\_no, String new\_name, **int** new\_mark) {

DB\_Connection obj\_DB\_Connection = **new** DB\_Connection();

Connection connection = obj\_DB\_Connection.get\_connection();

**try** {

String query = "UPDATE student SET name = ?, mark = ? WHERE sl\_no = ?";

PreparedStatement ps = connection.prepareStatement(query);

ps.setString(1, new\_name);

ps.setInt(2, new\_mark);

ps.setString(3, sl\_no);

**int** updated = ps.executeUpdate();

System.***out***.println(updated + " record(s) updated.");

} **catch** (Exception e) {

System.***out***.println(e);

}

}

**public** **void** delete\_data(String sl\_no) {

DB\_Connection obj\_DB\_Connection = **new** DB\_Connection();

Connection connection = obj\_DB\_Connection.get\_connection();

**try** {

String query = "DELETE FROM student WHERE sl\_no = ?";

PreparedStatement ps = connection.prepareStatement(query);

ps.setString(1, sl\_no);

**int** deleted = ps.executeUpdate();

System.***out***.println(deleted + " record(s) deleted.");

} **catch** (Exception e) {

System.***out***.println(e);}

}

}

**1)CREATE**

**DB\_Connection**

**package** crud\_operations;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**public** **class** DB\_Connection {

**public** **static** **void** main(String[] args) {

DB\_Connection obj\_DB\_Connection = **new** DB\_Connection();

System.***out***.println(obj\_DB\_Connection.get\_connection());

}

**public** Connection get\_connection() {

Connection connection = **null**;

**try** {

Class.*forName*("com.mysql.cj.jdbc.Driver"); // use cj for newer MySQL

connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/vit", "root", "Shaikriyaz@26");

} **catch** (Exception e) {

System.***out***.println(e);

}

**return** connection;

}

}

**CRUD\_Operations**

**package** crud\_operation;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**public** **class** CRUD\_Operation {

**public** **static** **void** main(String[] args) {

CRUD\_Operation objTest=**new** CRUD\_Operation();

objTest.create\_data("103", "manoj", 55);

objTest.create\_data("104", "karthick", 65);

}

**public** **void** create\_data(String sl\_no,String name,**int** mark){

DB\_Connection obj\_DB\_Connection=**new** DB\_Connection();

Connection connection=obj\_DB\_Connection.get\_connection();

PreparedStatement ps=**null**;

**try** {

String query="insert into student values (?,?,?)";

ps=connection.prepareStatement(query);

ps.setString(1, sl\_no);

ps.setString(2, name);

ps.setInt(3, mark);

System.***out***.println(ps);

ps.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e);

}

}

}