MYSQL-WORKBENCH:

```
show databases;
drop database vit_amaravati;
create database vit;
use vit;
create table student(id int,name varchar(25),marks int);
insert into student values(101,'akshitha',99),(102,'ram',98);

select * from student;

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```
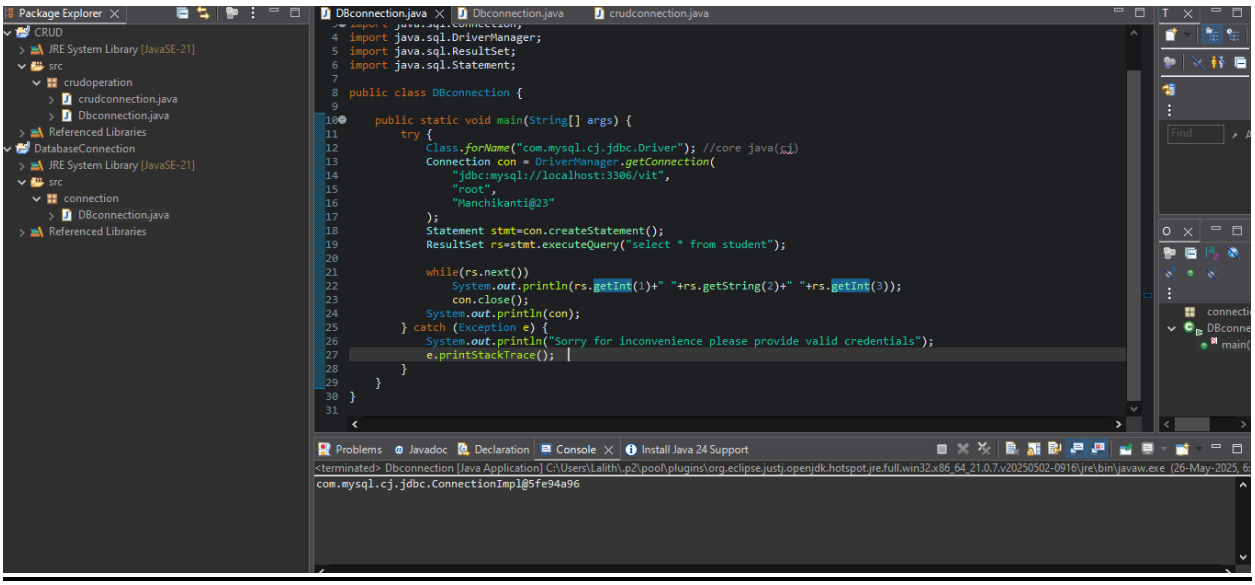

Ecllipse(to establish the connection):

```
package connection;

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

public class DBconnection {

    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver"); //core java(cj)
```

```
        Connection con = DriverManager.getConnection(
            "jdbc:mysql://localhost:3306/vit",
            "root",
            "Manchikanti@23"
        );
        Statement stmt=con.createStatement();
        ResultSet rs=stmt.executeQuery("select * from student");


        while(rs.next())
                System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));
                con.close();
        System.out.println(con);
    } catch (Exception e) {
        System.out.println("Sorry for inconvenience please provide valid
credentials");
        e.printStackTrace();
    }
  }
}
```

Here is the output:

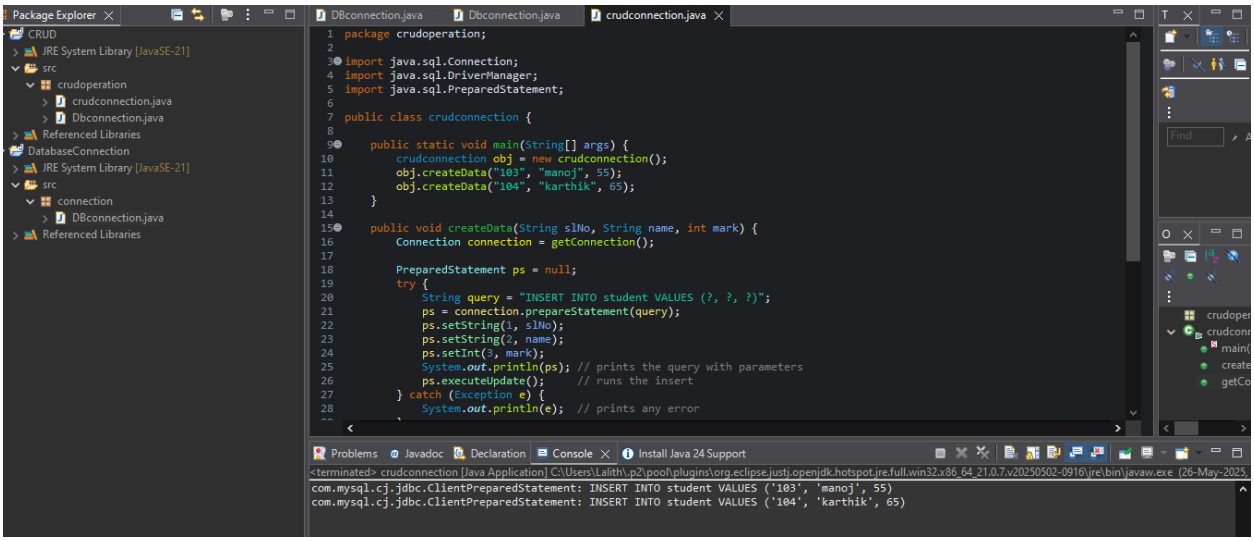


CRUD OPERATIONS:

```
package crudoperation;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;

public class crudconnection {

    public static void main(String[] args) {
        crudconnection obj = new crudconnection();

        obj.createData("103", "manoj", 55);
        obj.createData("104", "karthik", 65);
    }
```

```
public void createData(String slNo, String name, int mark) {
    Connection connection = getConnection();

    PreparedStatement ps = null;
    try {
        String query = "INSERT INTO student VALUES (?, ?, ?)";
        ps = connection.prepareStatement(query);
        ps.setString(1, slNo);
        ps.setString(2, name);
        ps.setInt(3, mark);
        System.out.println(ps); // prints the query with parameters
        ps.executeUpdate();     // runs the insert
    } catch (Exception e) {
        System.out.println(e);  // prints any error
    }
}

public Connection getConnection() {
    Connection connection = null;
    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        connection = DriverManager.getConnection(
            "jdbc:mysql://localhost:3306/vit",
            "root",
            "Manchikanti@23
```

```
            );
        } catch (Exception e) {
            System.out.println(e);
        }
        return connection;
    }
}
```



Here dbconnection:

```
package crudoperation;

import java.sql.Connection;
import java.sql.DriverManager;

public class Dbconnection {
```

```
    public static void main(String[] args) {
        Dbconnection objDbconnection = new Dbconnection();
        System.out.println(objDbconnection.getConnection());
    }

    public Connection getConnection() {
        Connection connection = null;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver"); // Correct driver for MySQL
8+
            connection = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/vit", // DB URL
                "root",                    // Username
                "Manchikanti@23"                    // Password
            );
        } catch (Exception e) {
            System.out.println(e);
        }
        return connection;
    }
}
```

MYSQL WORK BENCH: