NAME: VINOODHINI D
REG NO: 19IT118

1) CREATING A DATABASE:

```
package net.codejava;

import java.sql.*;

import java.sql.Connection;

import java.sql.DatabaseMetaData;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;


public class SQLiteMuleSoft {


        public static void createNewDatabase(String filename) {


    String url = "jdbc:sqlite:/D:\\6th SEM\\sqlite-tools-win32-x86-
3380000"+filename;


    try {

        Connection conn = DriverManager.getConnection(url);

        if (conn != null) {

            DatabaseMetaData meta = conn.getMetaData();

            System.out.println("The driver name is " + meta.getDriverName());

            System.out.println("A new database has been created.");

        }


    } catch (SQLException e) {

        System.out.println(e.getMessage());
```

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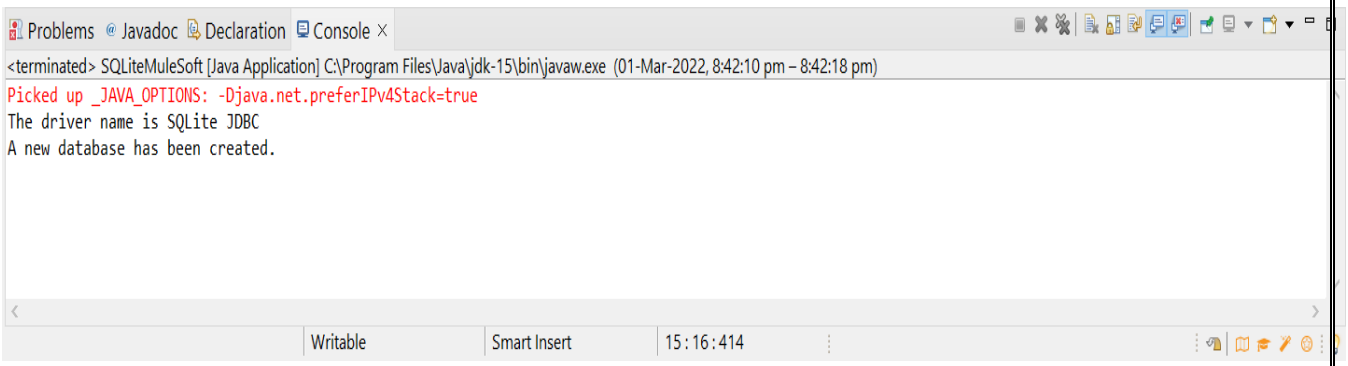
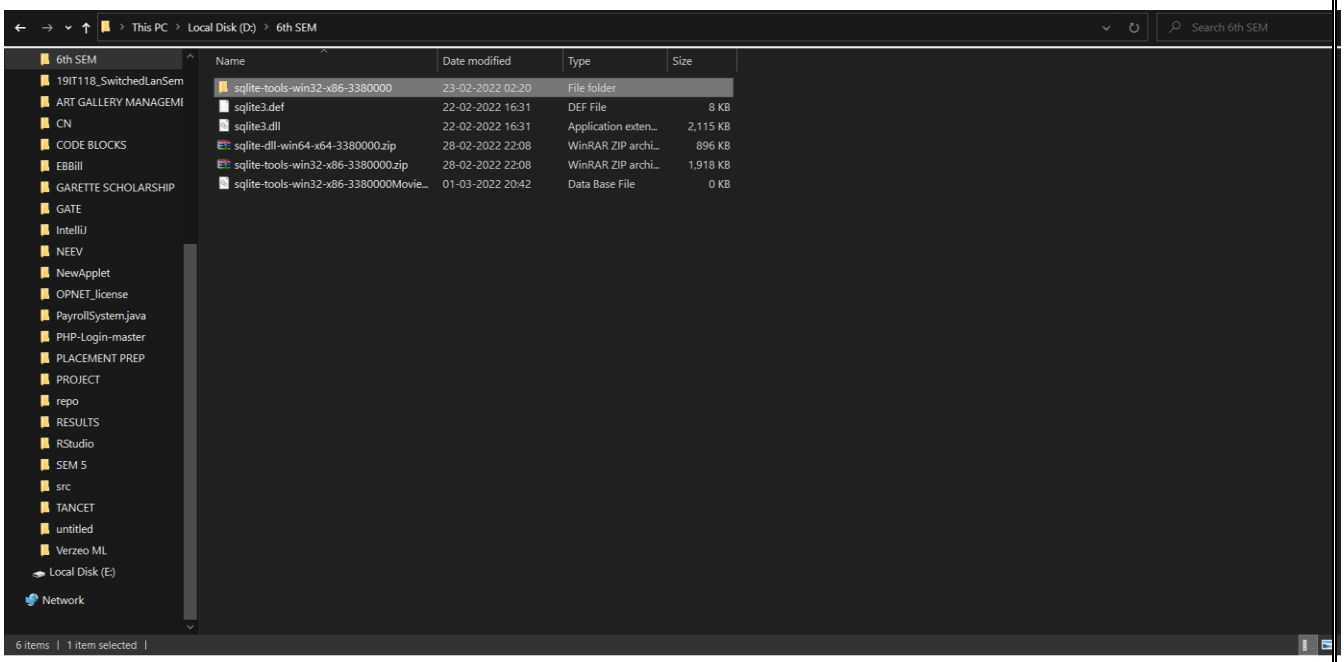
```
    }
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        createNewDatabase("Movies.db");


    }

}
```





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2) CREATING TABLE:

```
package net.codejava;

import java.sql.*;

import java.sql.Connection;

import java.sql.DatabaseMetaData;

import java.sql.DriverManager;

import java.sql.SQLException;


public class SQLiteMuleSoft {


    public static void createNewTable() {


String url = "jdbc:sqlite:/D:\\6th SEM\\sqlite-tools-win32-x86-3380000\\Movies.db";

String sql = "create table MuleSoftmovies(id int primary key,"

        + "name varchar(20), actor varchar(20),actress varchar(20),year int, director varchar(20))";


try{

    Connection conn = DriverManager.getConnection(url);

    Statement stmt = conn.createStatement();

    boolean b=stmt.execute(sql);

    System.out.println("Table Created Successfully");

} catch (SQLException e) {

    System.out.println(e.getMessage());
```

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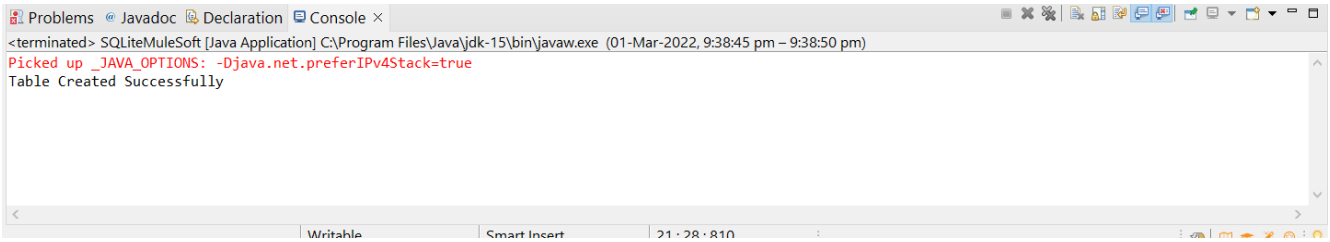
```
    }
  }
      public static void main(String[] args) {
            // TODO Auto-generated method stub
            createNewTable();
      }
}
```



3. INSERTION OF RECORDS:

```
package net.codejava;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;


public class SQLiteMuleSoft {


  private Connection connect() {

    // SQLite connection string

    String url = "jdbc:sqlite:D://6th SEM/sqlite-tools-win32-x86-
3380000/Movies.db";

    Connection conn = null;

    try {
```

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```
            conn = DriverManager.getConnection(url);
        } catch (SQLException e) {
            System.out.println(e.getMessage());
        }
        return conn;
    }



    public void insert(int id,String name, String actor,String actress, int year,
String director) {
        String sql = "INSERT INTO
MuleSoftmovies(id,name,actor,actress,year,director) VALUES(?,?,?,?,?,?)";


        try{
            Connection conn = this.connect();
            PreparedStatement pstmt = conn.prepareStatement(sql);
            pstmt.setInt(1,id);
            pstmt.setString(2, name);
            pstmt.setString(3,actor);
            pstmt.setString(4,actress);
            pstmt.setInt(5,year);
            pstmt.setString(6,director);


            pstmt.executeUpdate();
            System.out.println("Inserted the records");
        } catch (SQLException e) {
            System.out.println(e.getMessage());
```

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```
        }
    }


    public static void main(String[] args) {


        SQLiteMuleSoft app = new SQLiteMuleSoft();
        // insert three new rows
        app.insert(4,"Avengers", "RDJ","Scarlett",2019,"Shawn");
        app.insert(5,"Spiderman No way Home","Tom
Holland","Zendaya",2020,"Rick Riordan");
        app.insert(6,"Twilight","Robert Pattinson","Kristen Stewart
",2008,"Annabelle");
    }


}
```

4) RETRIEVAL:

```
package net.codejava;

import java.sql.DriverManager;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;
```

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```
import java.sql.Statement;


public class SQLiteMuleSoft {


   private Connection connect() {
      // SQLite connection string
      String url = "jdbc:sqlite:D://6th SEM/sqlite-tools-win32-x86-
3380000/Movies.db";
      Connection conn = null;
      try {
         conn = DriverManager.getConnection(url);
      } catch (SQLException e) {
         System.out.println(e.getMessage());
      }
      return conn;
   }
   public void selectAll(){
      String sql = "SELECT * FROM MuleSoftmovies";


      try {
         Connection conn = this.connect();
         Statement stmt  = conn.createStatement();
         ResultSet rs    = stmt.executeQuery(sql);


         // loop through the result set
         while (rs.next()) {
            System.out.println(rs.getInt("id") +  "\t" +
```

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```
                    rs.getString("name") + "\t" +
                    rs.getString("actor")+ "\t" +
                    rs.getString("actress") + "\t" +
                    rs.getInt("year") + "\t"+
                    rs.getString("director"));
            }
        } catch (SQLException e) {
            System.out.println(e.getMessage());
        }
    }
    public static void main(String[] args) {
        SQLiteMuleSoft app = new SQLiteMuleSoft();
        app.selectAll();
    }

}
```