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");
           }
}
                                                                                                                       ■ X ¾ 🖟 🖟 🗗 🗗 🗗 🛣 🗆 🕶 🕶

    Problems @ Javadoc   □ Declaration  □ Console ×

<terminated> SQLiteMuleSoft [Java Application] C:\Program Files\Java\jdk-15\bin\javaw.exe (01-Mar-2022, 8:42:10 pm – 8:42:18 pm)
Picked up _JAVA_OPTIONS: -Djava.net.preferIPv4Stack=true
The driver name is SQLite JDBC
A new database has been created.
                                    Writable
                                                         Smart Insert
                                                                             15:16:414
                                                                                                                                             4n m = 7 0
 ← → ▼ ↑ □ → This PC → Local Disk (D:) → 6th SEM
    6th SEM
    19IT118_SwitchedLanSem
    ART GALLERY MANAGEME
                         sqlite3.def
sqlite3.dll
                                                   22-02-2022 16:31
22-02-2022 16:31
                                                                  DEF File
    CODE BLOCKS
    ■ EBBill
                         sqlite-tools-win32-x86-3380000.zip
    GARETTE SCHOLARSHIP
    ■ GATE
    NEEV
    OPNET_license
    PayrollSystem.java
    PHP-Login-master
    PLACEMENT PREP
    RESULTS
    RStudio
    SEM 5
    TANCET
     Local Disk (E:)
```

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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();
       }
                                                                               ■ X 🗞 🔒 🚮 🐶 🗗 🗗 🚽 🗗 🖚 🗖

    Problems @ Javadoc    Declaration    □ Console ×

<terminated> SQLiteMuleSoft [Java Application] C:\Program Files\Java\jdk-15\bin\javaw.exe (01-Mar-2022, 9:38:45 pm – 9:38:50 pm)
Picked up _JAVA_OPTIONS: -Djava.net.preferIPv4Stack=true
Table Created Successfully
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");
                                                                   ■ X ¾ 🖟 🖟 🖟 🗗 🗗 🗗 🛨 🗆 🗆

    Problems @ Javadoc □ Declaration □ Console ×

Picked up _JAVA_OPTIONS: -Djava.net.preferIPv4Stack=true
Inserted the records
Inserted the records
Inserted the records
                    Writable
                                Smart Insert
                                           1:1 [1844]

¶ □ ≈ > 0 : 0
```

4) RETRIEVAL:

```
package net.codejava;
import java.sql.DriverManager;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
```

```
NAME: VINOODHINI D
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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();
  }
}
```

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```
    Problems @ Javadoc □ Declaration □ Console ×

<terminated> SQLiteMuleSoft [Java Application] C\Program Files\Java\jdk-15\bin\javaw.exe (01-Mar-2022, 10:16:49 pm - 10:16:51 pm)
Picked up _JAVA_OPTIONS: -Djava.net.preferIPv4Stack=true
                    RDJ Scarlett
                                           2019 Shawn
       Avengers
1
       Spiderman No way Home Tom Holland
                                           Zendaya 2020 Rick Riordan
                                                                        Annabelle
       Twilight
                 Robert Pattinson
                                           Kristen Stewart
                                                                 2008
       Avengers
                      RDJ Scarlett
                                           2019 Shawn
       Spiderman No way Home Tom Holland
                                           Zendaya 2020 Rick Riordan
       Twilight
                      Robert Pattinson
                                           Kristen Stewart
                                                                        Annabelle
                                Writable
                                                    Smart Insert
                                                                      48:1 [1685]
```