Connect to SQLite Database

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** Connect {

**public** **static** **void** connect() {

        Connection conn = **null**;

**try** {

            String url = "jdbc:sqlite:C:/sqlite/JTP.db";

            conn = DriverManager.getConnection(url);

            System.out.println("Connection to SQLite has been established.");

        } **catch** (SQLException e) {

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

        } **finally** {

**try** {

**if** (conn != **null**) {

                    conn.close();

                }

            } **catch** (SQLException ex) {

                System.out.println(ex.getMessage());

            }

        }

    }

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

        connect();

    }

}

## Create Database using java

**import** java.sql.Connection;

**import** java.sql.DatabaseMetaData;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** Create {

**public** **static** **void** createNewDatabase(String fileName) {

        String url = "jdbc:sqlite:C:/sqlite/" + 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());

        }

    }

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

        createNewDatabase("MOVIES.db");

    }

}

## Create a table using java

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**public** **class** CreateTable {

**public** **static** **void** createNewTable() {

        String url = "jdbc:sqlite:C://sqlite/MOVIES.db";

        String sql = "CREATE TABLE IF NOT EXISTS MOVIES(\n"

                + " MoiveName text PRIMARY KEY,\n"

                + " actor text NOT NULL,\n"

+ " actress text NOT NULL,\n"

+ " director text NOT NULL,\n"

+ " Year of Release Date NOT NULL,\n"

                + ");";

**try**{

            Connection conn = DriverManager.getConnection(url);

            Statement stmt = conn.createStatement();

            stmt.execute(sql);

        } **catch** (SQLException e) {

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

        }

    }

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

        createNewTable();

    }

}

## Insert Record in the table

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.SQLException;

**public** **class** InsertRecords {

**private** Connection connect() {

        String url = "jdbc:sqlite:C://sqlite/SSSIT.db";

        Connection conn = **null**;

**try** {

            conn = DriverManager.getConnection(url);

        } **catch** (SQLException e) {

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

        }

**return** conn;

    }

**public** **void** insert(String name, **double** capacity) {

        String sql = "INSERT INTO Movies(Mivename,actor,actress,director,yearofrelease) VALUES(?,?)";

**try**{

            Connection conn = **this**.connect();

            PreparedStatement pstmt = conn.prepareStatement(sql);

            pstmt.setString(1, name);

            pstmt.setDouble(2, capacity);

            pstmt.executeUpdate();

        } **catch** (SQLException e) {

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

        }

    }

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

        InsertRecords app = **new** InsertRecords();

        app.insert("temper",”Ntr”,”kajal”,”puri”, 2015);

        app.insert("legend",”balakrishna”,”samantha”,”Bsrinu”,” 2014);

        app.insert("Jersy",”nani”,”kajal”,”boby”,2019”, 50000);

    }

}

## Select Records

**import** java.sql.DriverManager;

**import** java.sql.Connection;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**public** **class** SelectRecords {

**private** Connection connect() {

        String url = "jdbc:sqlite:C://sqlite/SSSIT.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 employees";

**try** {

            Connection conn = **this**.connect();

            Statement stmt  = conn.createStatement();

            ResultSet rs    = stmt.executeQuery(sql);

**while** (rs.next()) {

                System.out.println(rs.getString("MoiveName") +  "\t" +

                                   rs.getString("actor") + "\t" +

rs.getString("actress") + "\t" +

rs.getString("Directorr") + "\t" +

rs.getDate("YearofRelease") + "\t" +

            }

        } **catch** (SQLException e) {

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

        }

    }

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

        SelectRecords app = **new** SelectRecords();

        app.selectAll();

    }

}

## Select Records parameter like Actor name.

**import** java.sql.DriverManager;

**import** java.sql.Connection;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**public** **class** SelectRecords {

**private** Connection connect() {

        String url = "jdbc:sqlite:C://sqlite/SSSIT.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 employees";

**try** {

            Connection conn = **this**.connect();

            Statement stmt  = conn.createStatement();

            ResultSet rs    = stmt.executeQuery(sql);

**while** (rs.next()) {

                System.out.println(rs.getString("MoiveName") +  "\t" +

                                   rs.getString("actor") + "\t" +

            }

        } **catch** (SQLException e) {

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

        }

    }

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

        SelectRecords app = **new** SelectRecords();

        app.selectAll();

    }

}