## 1. Create SqliteConnection.java file

```
Colors workspace2 SECLLogin/inclapplication/Sqitat/connection/inval-tilique IDE

File Emil Source Parlatter Namephin Search Project Ren Window Birth

The Lot Sharp Markets in the Origin Color Window Birth

The Lot Sharp Markets in the Origin Color Window Birth

The Color Sharp Markets in the Origin Color Window Birth

The Color Sharp Markets in the Origin Color Sharp Window Birth

The Color Sharp Markets Inc. (1998) The Co
  * II Mangeos - II HomeControllegeos - II SqiheConnection;pvv *
                  1 package application;
 3 import java.sql.Connection;
4 import java.sql.DriverManager;
                  6 public class SqliteConnection {
   7-
8
9
                                                       public static Connection connector() (
                                                                                     try |
                                                                                                                Connection con = DriverManager.getConnection("jdbc:sqlite:student.sqlite");
            12
                                                                                  catch (Exception e) (
           13
                                                                                                                return null;
                                                                                    Ī
             14
                                                        1
               16
            17.
```

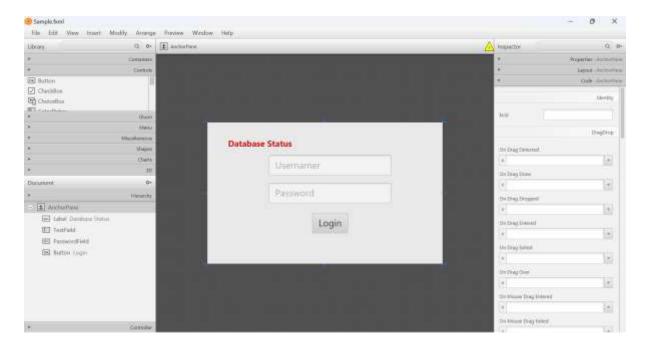
## 2. Create LoginModel.java

```
Column verification (Section (
```

3. Type below code in SampleContorller.java

```
😄 eclipse-workspace2 - StudontWgmt/urc/application/SampleController.jova - Edipse IDE
1 package application;
3 import java.net.URL;
4 import java.util.ResourceBundle;
  @ import javafx.event.ActionEvent;
  7 import javafx.fxml.FXML;
  0 import javafx.fxml.Initializable;
  9 import javafx.scene.control.Button;
  10 import javafx.scene.control.Label;
  11 import javafx.scene.control.PasswordField;
  12 import javafx.scene.control.TextField;
 14 public class SampleController implements Initializable (
       LoginModel loginModel - new LoginModel();
 16
       @FXML
  18
       private Label myLabel;
  19.
        @FXML
       private Button mybtn;
        private TextField usernameTxt;
                                                   Smart Inset 42:14:1007
actigue workspace2 - StudontWgmt/urc/application/SampleController.java - Edipse IDE
* Symborostonian RiggirModdine RiemphContohram = WMerjan | 1 import javalx.Scene.Conciol.PdSSWOFGF1010;
12 import javafx.scene.control.TextField;
14 public class SampleController implements Initializable (
       LoginModel loginModel - new LoginModel();
  16
       @FXML
 18
       private Label myLabel;
 1.0a
        #FXML
        private Button mybtn;
        0 FXML
        private TextField usernameTxt;
 23-
 24
        private PasswordField passwordTxt;
        @Override
        public void initialize (URL arg0, ResourceBundle arg1) (
          if (loginModel.isDbConnected())
 28
                myLabel.setText("DB Connected...,");
 94
            else
 305
                myLabel.setText("DB Connection Failed....");
  33
```

4. Create the Scene as per below



5. Update code in LoginModel.java

```
ckipse-workspace2 - StudontMgmt/src/application/LogirModel.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Rail Wildow Birth

The Late of the Particle of the Search Project Rail Wildow Birth

The Late of the Particle of the Search Project Rail Search Particle of the Search Particle of 
24°
25
0 26
                                    public boolean isValidLogin(String username, String password) throws Exception (
                                               PreparedStatement pstmt = null;
                                                      ResultSet rs - null;
        28
                                                     String query - "SELECT * FROM emp WHERE username - ? AND password - ?";
                                                      try (
       30
                                                                        potmt = connection.prepareStatement(query);
                                                                        patmt.setString(1, username);
        32
                                                                       putmi.setString(2, password);
        34
                                                                        rs = pstmt.executeQuery();
                                                                       if (rs.next()) (
                                                                                        return true;
        38
                                                                       return false;
         39
                                                      | catch (Exception e) (
       40
                                                                      return false;
       41
                                                       finally (
       42
                                                                       rs.close();
       43
      4.0
                                    Œ.
                                                                                                                                                                                                                       Smart Inset 25 : 32 : 539
```

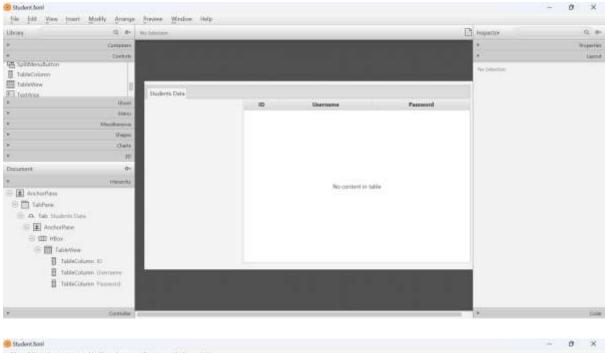
Step 6: Updated in LoginModel.java

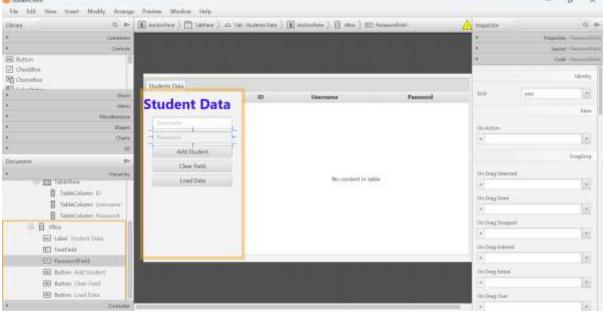
```
ackpse-workspace2 - StudentWgentVerc/application/LogirModel.java - Éclipse IDE
0 SqlaCorrects
25 1
26 27
28
        public boolean isValidLogin(String username, String password) throws Exception (
           PreparedStatement pstmt = null;
            ResultSet rs = null;
            String query = "SELECT * FROM emp WHERE username = ? AND password = ?";
 30
            try
                pstmt = connection.prepareStatement(query);
                pstmt.setString(1, username);
                pstmt.setString(2, password);
  34
                rs = pstmt.executeQuery();
  36
                System.out.println("rs");
                if (rm.next()) (
                    return true;
                return false;
            | catch (Exception e) |
                return false;
            | finally (
 44
                rs.close();
                                                  Smart Insert 26:9:541
```

7. Type below code in SampleContorller.java

```
actigue-workspace2 - StudontMgmt/urc/application/SampleController.java - Edipse IDE
File EIII Source Fafactor Newsyste Search Project Ren Window Birls
24 private PasswordField passwordTi
25
26 BOVERIDE
         private PasswordField passwordTxt;
         public void initialize (URL arg0, ResourceBundle arg1) (
  28
              if (loginModel.isDbConnected())
  29
                    myLabel.setText("DB Connected....");
  30
  31
                    myLabel.setText("DB Connection Failed....");
         1
 34+
35
          public void loginCheck(ActionEvent event) [
 36
37
                   if (loginModel.isValidLogin(usernameTxt.getText(), passwordTxt.getText())) {
    myLahel.setText("Valid Username and Password");
  38
                    ) else (
                         mylabel.setText("Invalid Username and Password");
 40
               | catch (Exception e) {
 42
                    myLabel.setText("Invalid Username and Password");
 43
          1
  45 1
                                                                   Smart Insert 42 : 14 : 1097
```

8. Design the Scene





8. Update SampleContoller.java

```
Control of the Contro
* SpikeConnection; ave | BioghtModel; ave | 2 SempleController; ave | Military | Student from | SempleController; ave | Military | Student from | SempleController; ave | Military | Student from | Military | Mi
                                                                     myLabel.setText("DB Connected....");
        34
                                                                      myLabel.setText("DB Connection Failed....");
         36 )
      38 public void loginCheck(ActionEvent event) (
         3.9
         40
                                                                        if (loginModel.isValidLogin(usernameTxt.getText(), passwordTxt.getText())) (
         41
                                                                                                 myLabel.setText("Valid Username and Password");
                                                                                                 Stage primaryStage = new Stage();
                                                                                                 Parent root = FXMLLoader.load(getClass().getResource("Student.fxml"));
                                                                                                Scene scene - new Scene (root);
                                                                                               scene.getStylesheets().add(getClass().getResource("application.css").toExternalFo
                                                                                               primaryStage.setScene(scene);
                                                                                                primaryStage.show():
                                                                      | else |
                                                                                             myLabel.setText("Invalid Username and Password");
                                                | catch (Exception e) |
                                                                       myLabel.setText("Invalid Username and Password");
         5%
```

9. Auto Close Login Page - Update in LoginController.java

```
actigue workspace2 - StudontMgmt/urc/application/SampleController.java - Edipse IDE
if (loginModel.isValidLogin(usernameTxt.getText(), passwordTxt.getText())) (
                   myLabel.setText("Valid Username and Password");
 411
                   Stage stage = (Stage) this.passwordTxt.getScene().getWindow();
                   stage.close();
                   openPage (event);
               | else |
 47
                   myLabel.setText("Invalid Username and Password");
  411
  49
           ) catch (Exception e) {
               myLabel.setText("Invalid Username and Password");
       public void openPage (ActionEvent event) throws 10Exception (
 5.4
           Stage primaryStage = new Stage();
           Parent root = FXMLLoader.load(getClass().getResource("Student.fxml"));
           Scene scene = new Scene (root);
           scene.qetStylesheets().add(getClass().getResource("application.css").toExternalForm()
           primaryStage.setScene(scene);
 59
           primaryStage.show();
 60
```

## 10. Create StudentData.java

```
😄 oclipse-workspace2 - StudontMgent/arc/application/StudentDatajava - Edipse IDE
File Edit Source Perfector Navigate Search Project Nov. Window Help

The Lot is a William in the Company of the Window Help

The Lot is a William in the Company of the Window Help

The Lot is a William in the Company of the Window Help

The Lot is a William in the Company of the Window Help

The Lot is a William in the Company of the Window Help

The Lot is a William in the Company of the Window Help

The Lot is a Window Help

The Window Help

The Window Help

The Window Help

The 
SqtsCorrectonies RisprModelies Rism
I package application;
                                    ionjava RiogerModeljava RisempleCorpollerjava IIIManjava II Studentberi II Samplicbori II StudentCortrollerjava II StudentDelajava II
         import javafx.beans.property.StringProperty;
          5 public class StudentData(
                               private final StringProperty Id;
                                 private final StringProperty userName;
private final StringProperty password;
          9.
                           public StudentData(StringProperty Id, StringProperty userName, StringProperty password) (
                                                   this. Id - Id;
                                                   this.userName = userName;
                                                   this.password = password;
        12
        13
        1.4-
                               public final StringProperty IdProperty() (
                                               return this. Id;
       16
                                  public final String getId() (
       18-
       19
                                                  return this.IdProperty().get();
                                  public final void setId(final String Id) (
```