## JavaFX project

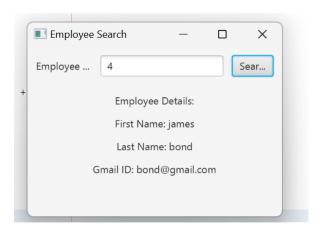
1] Create a JavaFX project to retrieve the employee details from the database.

```
package retrievedata;
import javafx.application.Application;
import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
public class Retrievedata extends Application {
  private Connection conn;
  private PreparedStatement pstmt;
  private ResultSet rs;
  @Override
  public void start(Stage primaryStage) {
     HBox inputBox = new HBox(10);
     inputBox.setAlignment(Pos.CENTER RIGHT);
     inputBox.setPadding(new Insets(10));
```

```
Label idLabel = new Label("Employee ID:");
    TextField idField = new TextField();
    Button searchButton = new Button("Search");
    inputBox.getChildren().addAll(idLabel, idField, searchButton);
    VBox outputBox = new VBox(10);
    outputBox.setAlignment(Pos.CENTER);
    outputBox.setPadding(new Insets(10));
    Scene scene = new Scene(new VBox(inputBox, outputBox), 300, 200);
    primaryStage.setScene(scene);
    primaryStage.setTitle("Employee Search");
    primaryStage.show();
    searchButton.setOnAction(e -> {
       String employeeId = idField.getText();
       if (!employeeld.isEmpty()) {
         try {
            conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/hr", "root",
"2827852");
            pstmt = conn.prepareStatement("SELECT fname, Iname, gmail id FROM
employee WHERE emp id = ?");
            pstmt.setString(1, employeeld);
            rs = pstmt.executeQuery();
            if (rs.next()) {
              String fname = rs.getString("fname");
              String Iname = rs.getString("Iname");
              String gmailId = rs.getString("gmail id");
              Label detailsLabel = new Label("Employee Details:");
```

```
Label fnameLabel = new Label("First Name: " + fname);
               Label InameLabel = new Label("Last Name: " + Iname);
               Label gmailIdLabel = new Label("Gmail ID: " + gmailId);
               outputBox.getChildren().addAll(detailsLabel, fnameLabel, lnameLabel,
gmailldLabel);
            } else {
               Label notFoundLabel = new Label("Employee not found!");
               outputBox.getChildren().add(notFoundLabel);
             }
          } catch (Exception ex) {
             System.err.println("Error: " + ex.getMessage());
          } finally {
            try {
               if (rs != null) rs.close();
               if (pstmt != null) pstmt.close();
               if (conn != null) conn.close();
             } catch (Exception ex) {
               System.err.println("Error closing resources: " + ex.getMessage());
            }
          }
       }
     });
  }
  public static void main(String[] args) {
     Application.launch(Retrievedata.class, args);
  }
}
```

## **Output:**



## 2] Create a Java project to retrieve the employee details from the database using a Callable statement.

```
package calleble_statement;
import javafx.application.Application;
import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;
import java.sql.CallableStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
public class Calleble Statement extends Application {
  private Connection conn;
  private CallableStatement cstmt;
  private ResultSet rs;
  @Override
```

```
public void start(Stage primaryStage) {
    HBox inputBox = new HBox(10);
    inputBox.setAlignment(Pos.CENTER_RIGHT);
    inputBox.setPadding(new Insets(10));
    Label idLabel = new Label("Employee ID:");
    TextField idField = new TextField();
    Button searchButton = new Button("Search");
    inputBox.getChildren().addAll(idLabel, idField, searchButton);
    VBox outputBox = new VBox(10);
    outputBox.setAlignment(Pos.CENTER);
    outputBox.setPadding(new Insets(10));
    Scene scene = new Scene(new VBox(inputBox, outputBox), 300, 200);
    primaryStage.setScene(scene);
    primaryStage.setTitle("Employee Search");
    primaryStage.show();
    searchButton.setOnAction(e -> {
       String employeeldStr = idField.getText();
       if (!employeeIdStr.isEmpty()) {
         try {
            int employeeld = Integer.parseInt(employeeldStr);
            conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/hr", "root",
"2827852");
            cstmt = conn.prepareCall("{call getEmployeeDetails(?)}");
            cstmt.setInt(1, employeeld);
            rs = cstmt.executeQuery();
            if (rs.next()) {
              String fname = rs.getString("fname");
              String Iname = rs.getString("Iname");
              String gmailId = rs.getString("gmail id");
              Label detailsLabel = new Label("Employee Details:");
              Label fnameLabel = new Label("First Name: " + fname);
              Label InameLabel = new Label("Last Name: " + Iname);
              Label gmailIdLabel = new Label("Gmail ID: " + gmailId);
```

```
outputBox.getChildren().addAll(detailsLabel, fnameLabel, lnameLabel,
gmailldLabel);
             } else {
               Label notFoundLabel = new Label("Employee not found!");
               outputBox.getChildren().add(notFoundLabel);
             }
          } catch (SQLException ex) {
             System.err.println("Error: " + ex.getMessage());
          } finally {
             try {
               if (rs != null) rs.close();
               if (cstmt != null) cstmt.close();
               if (conn != null) conn.close();
             } catch (SQLException ex) {
               System.err.println("Error closing resources: " + ex.getMessage());
             }
          }
       }
     });
  }
  public static void main(String[] args) {
     launch(Calleble_Statement.class, args);
  }
}
```

## **Output:**

