MID TERM EXAM

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CODES-

CARS.JAVA-

```
package com.example.midtermexam;
import javafx.application.Application;
import javafx.fxml.FXMLLoader;
import javafx.scene.Scene;
import javafx.scene.image.Image;
import javafx.scene.layout.Pane;
import javafx.stage.Stage;

public class CarApp extends Application {
    @Override
    public void start(Stage primaryStage) throws Exception {
        FXMLLoader loader = new FXMLLoader();
        loader.setLocation(getClass().getResource("/fxml/carview.fxml"));
        Pane root = loader.load();
        Scene scene = new Scene(root, 1000, 800);

        primaryStage.setTitle("Car Lot");
        primaryStage.getIcons().add(new Image("/images/car.png"));
        primaryStage.setScene(scene);
        primaryStage.show();
    }

    public static void main(String[] args) {
        Application.launch(args);
    }
}
```

CARDBMANAGER.JAVA-

```
package com.example.midtermexam;
import java.sql.*;
import java.time.LocalDate;
import java.util.ArrayList;
import java.util.List;
public class CarDBManager {
```

```
public CarDBManager(String url, String username, String password)
throws SQLException {
               cars.add(car);
   public List<Car> getCarsByYear(int year) throws SQLException {
   public List<Integer> getAllYears() throws SQLException {
           ResultSet rs = stmt.executeQuery(sqlQuery);
               years.add(year);
           rs.close();
```

```
}
}
```

CARSAPP.JAVA-

```
@SpringBootApplication
        primaryStage.setScene(scene);
    public void stop() {
```

```
import javafx.beans.property.*;
    private ObjectProperty<LocalDate> dateSold;
price, LocalDate dateSold) {
        validateMake(make);
        validateModel(model);
        validatePrice(price);
        this.carID = new SimpleIntegerProperty(carID);
        this.modelYear = new SimpleIntegerProperty(modelYear);
        boolean isValid = false;
            if (validMake.equals(make)) {
                isValid = true;
    private void validatePrice(int price) {
```

```
public IntegerProperty carIDProperty() {
public IntegerProperty modelYearProperty() {
public StringProperty makeProperty() {
public StringProperty modelProperty() {
public IntegerProperty priceProperty() {
public ObjectProperty<LocalDate> dateSoldProperty() {
```

```
}
}
```

carsview.fxml-

```
<GridPane xmlns="http://javafx.com/javafx/17.0.2-ea"</pre>
xmlns:fx="http://javafx.com/fxml/1"
    <children>
        <TableView fx:id="carTable" GridPane.rowIndex="0"</pre>
GridPane.columnSpan="2">
            </columns>
        </TableView>
        </HBox>
        </HBox>
            <Label fx:id="totalSalesLabel" />
        </HBox>
GridPane.rowIndex="4" GridPane.columnSpan="2">
                 <CategoryAxis />
        </BarChart>
    </children>
</GridPane>
```