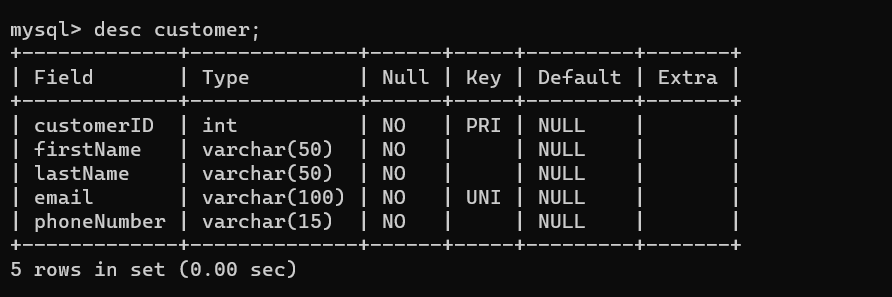
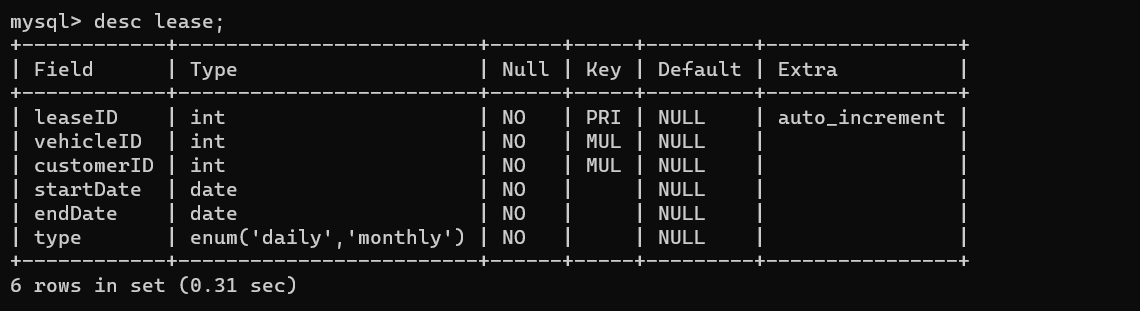
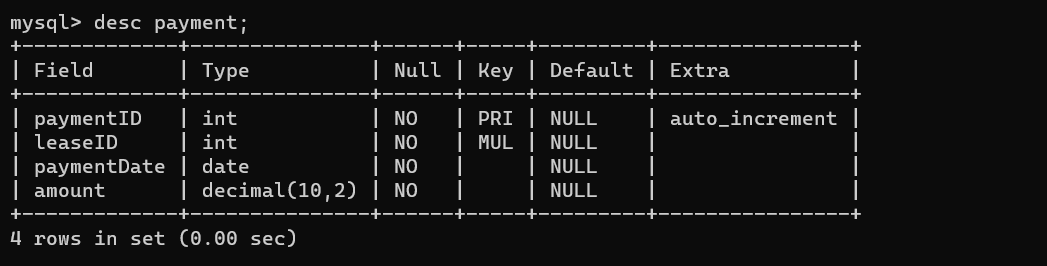
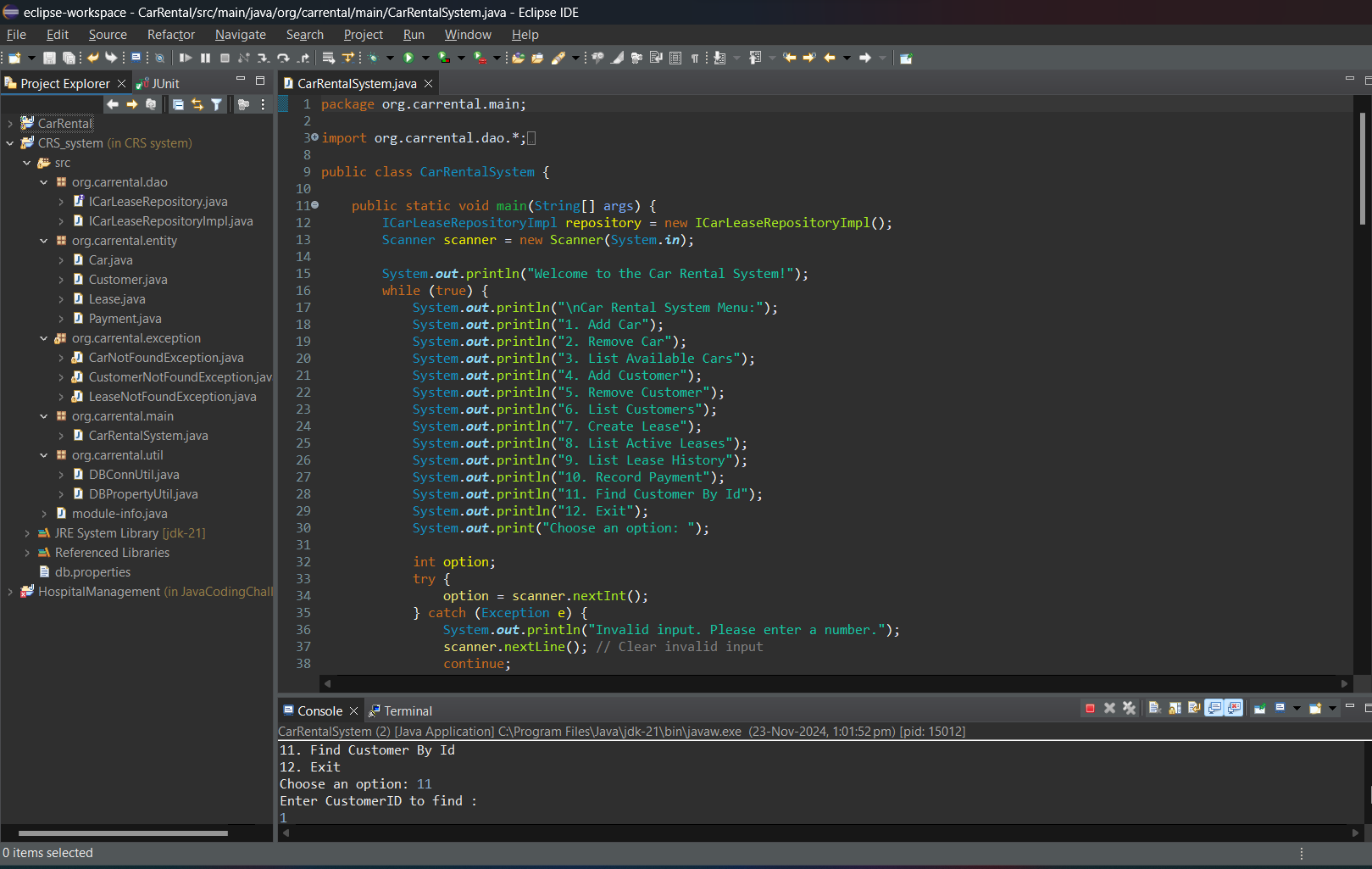
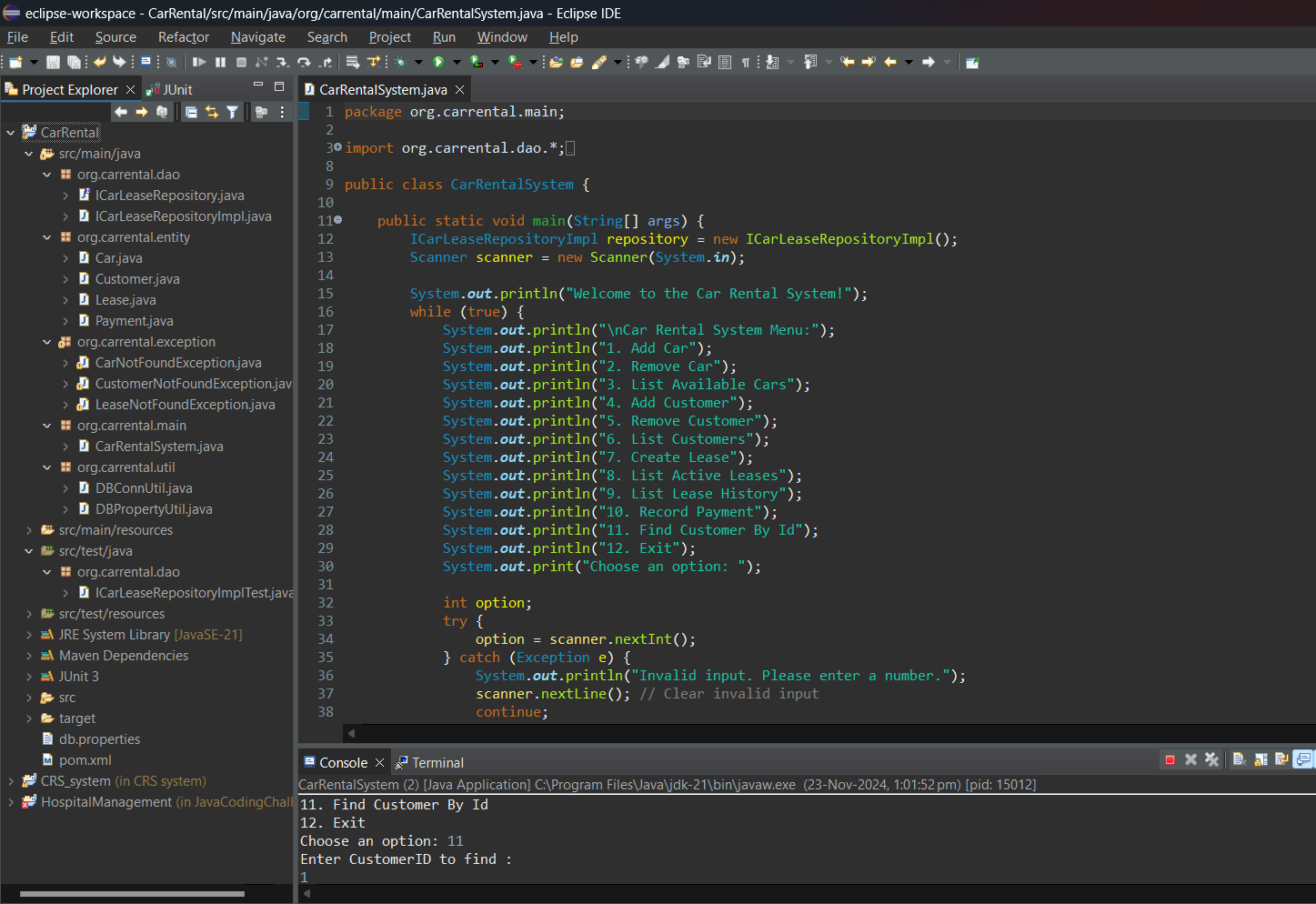
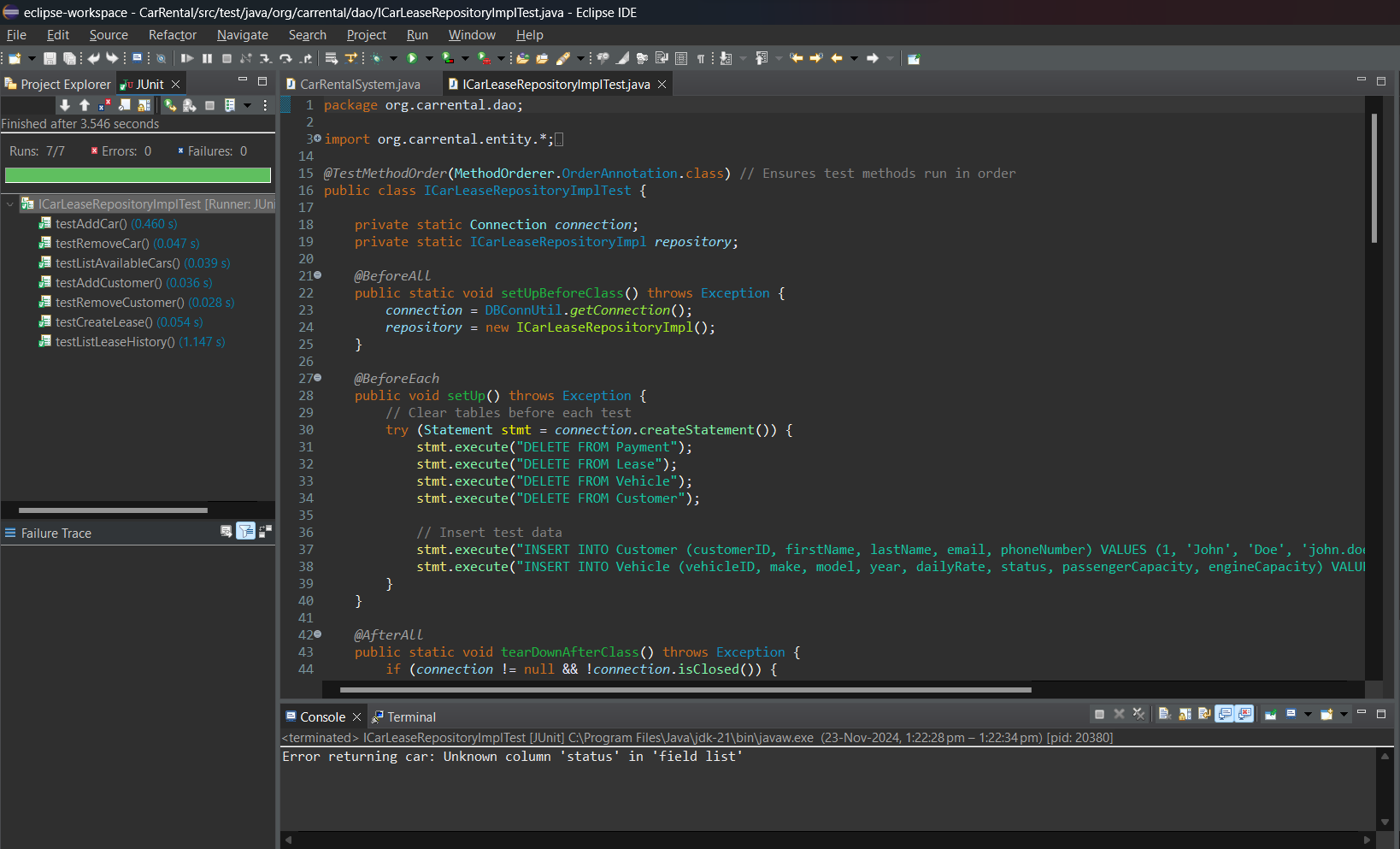
**CAR RENTAL SYSTEM**

**DB Schemas**

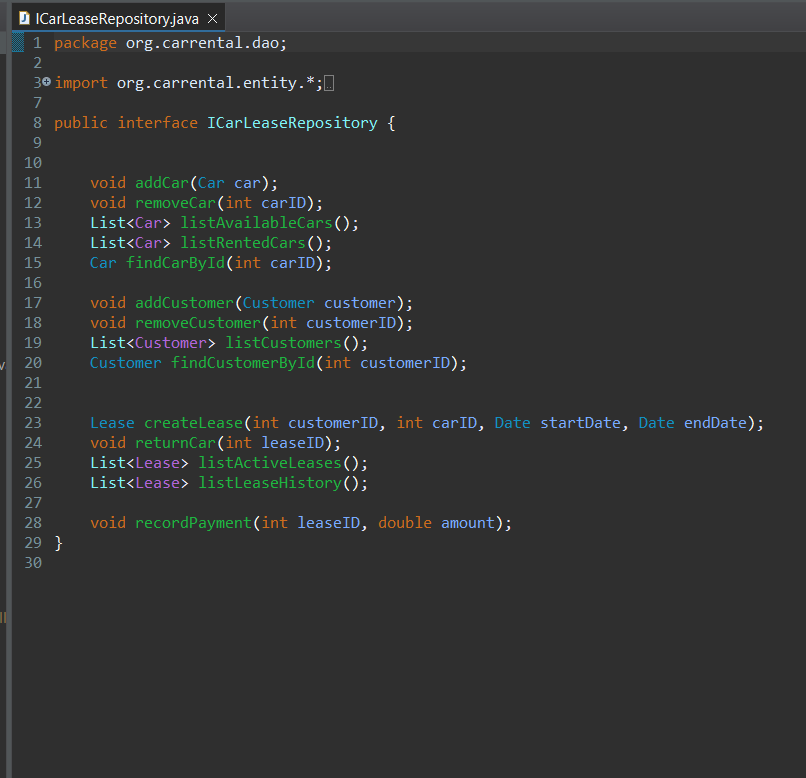
   

**PROJECT STRUCTURE**

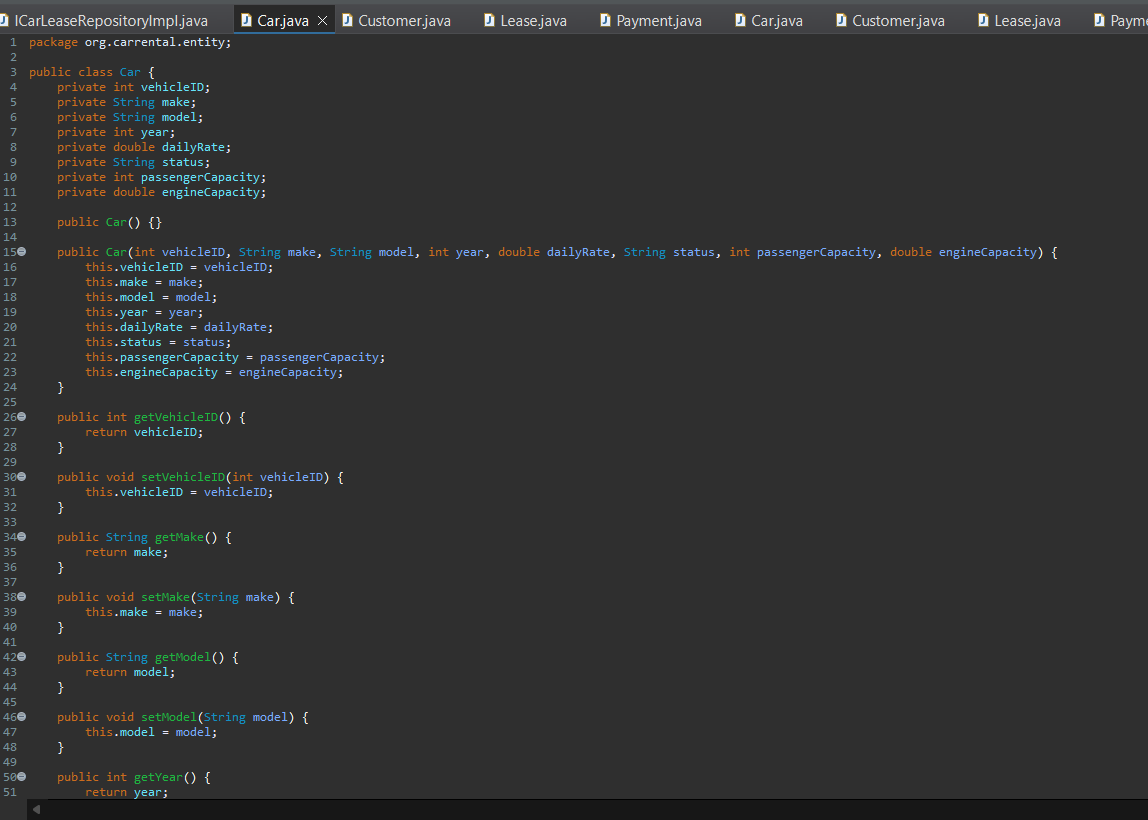
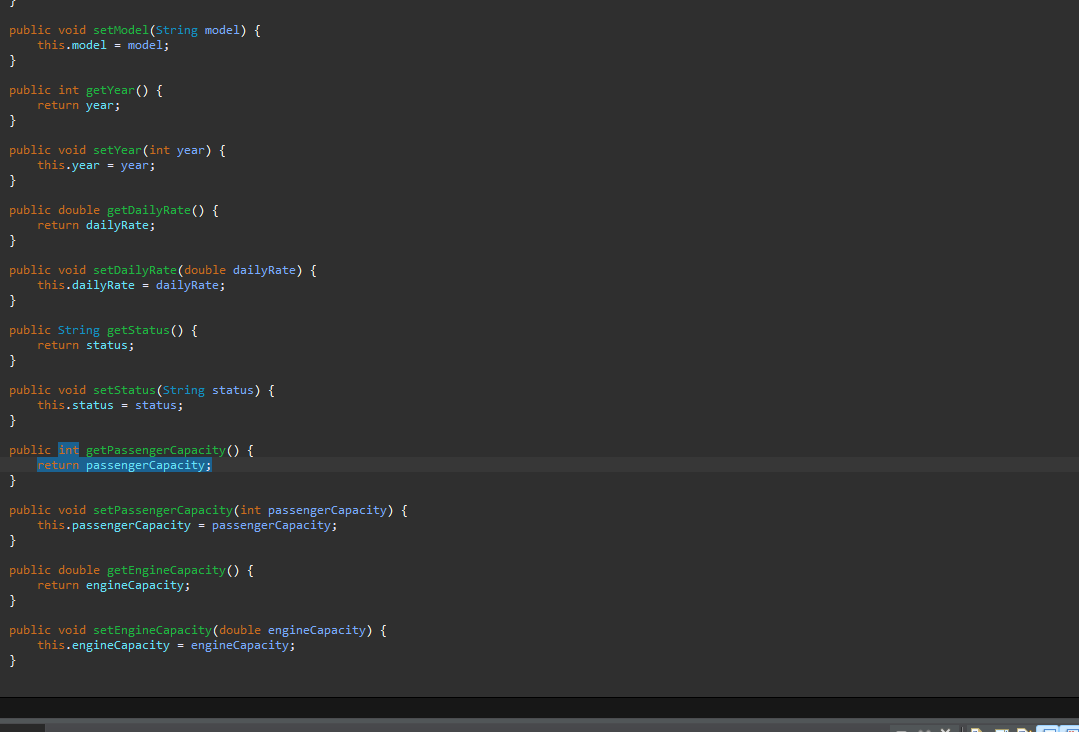


**JAVA CODES**

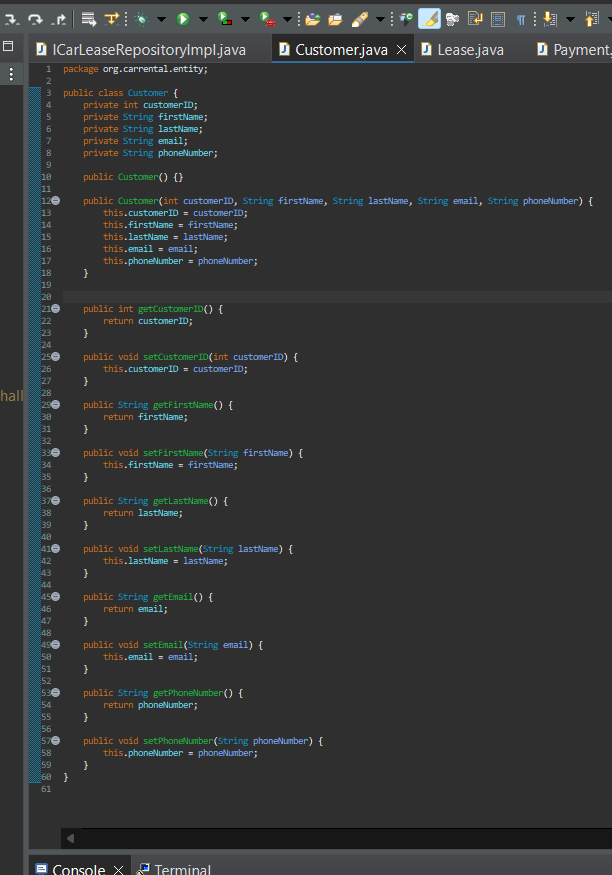
**Dao package**

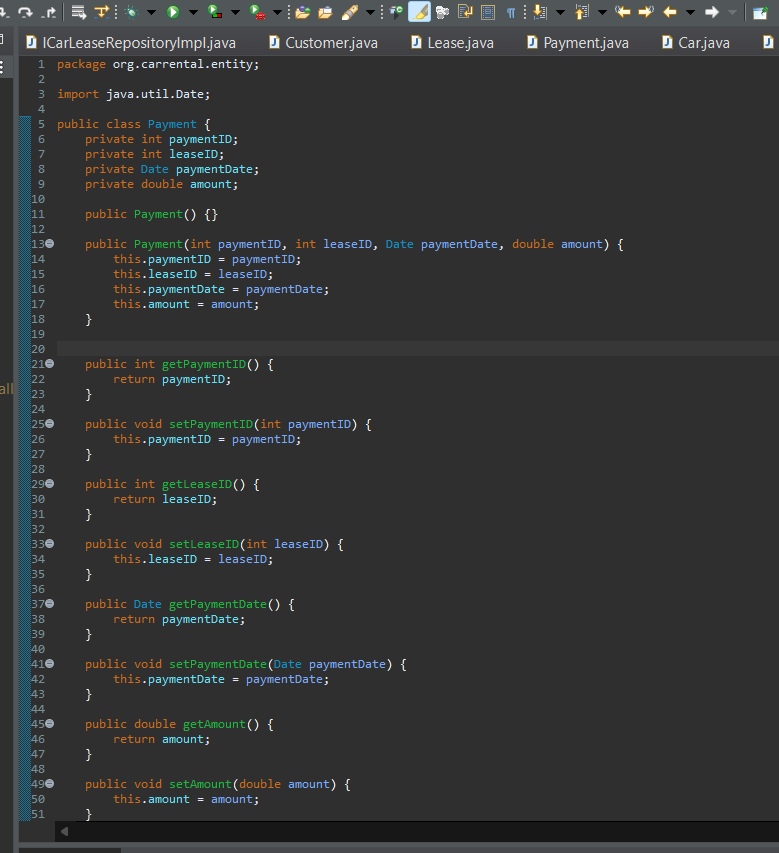
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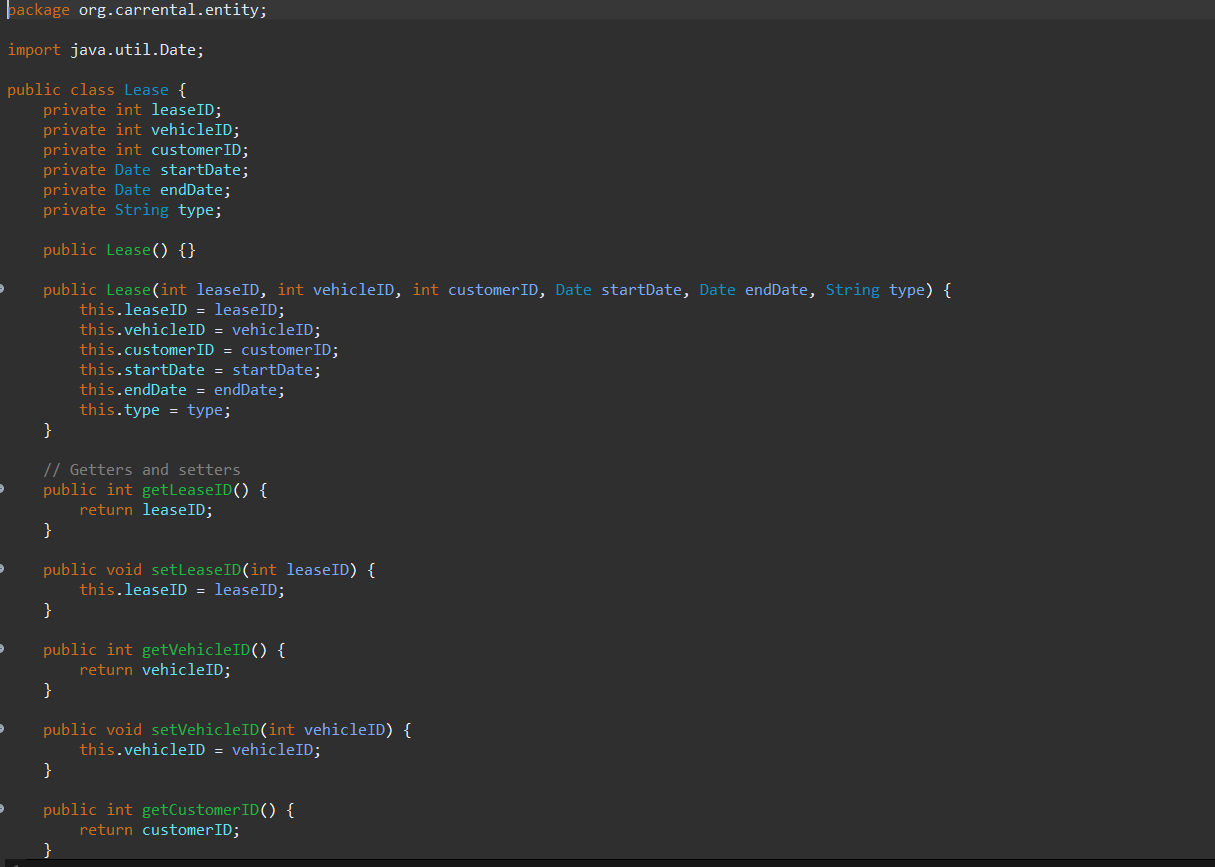
Entity Package

Car.java

Customer.java



Payment.Java





Exceptions

|  |
| --- |
| Exception 1;  package org.carrental.exception;  public class CarNotFoundException extends RuntimeException {  public CarNotFoundException(String message) {  super(message);  }  }  Exception 2;  package org.carrental.exception;  public class CustomerNotFoundException extends RuntimeException {  public CustomerNotFoundException(String message) {  super(message);  }  }  Exception 3;  package org.carrental.exception;  public class LeaseNotFoundException extends RuntimeException {  public LeaseNotFoundException(String message) {  super(message);  }  } |

**DBConnUtil.java**

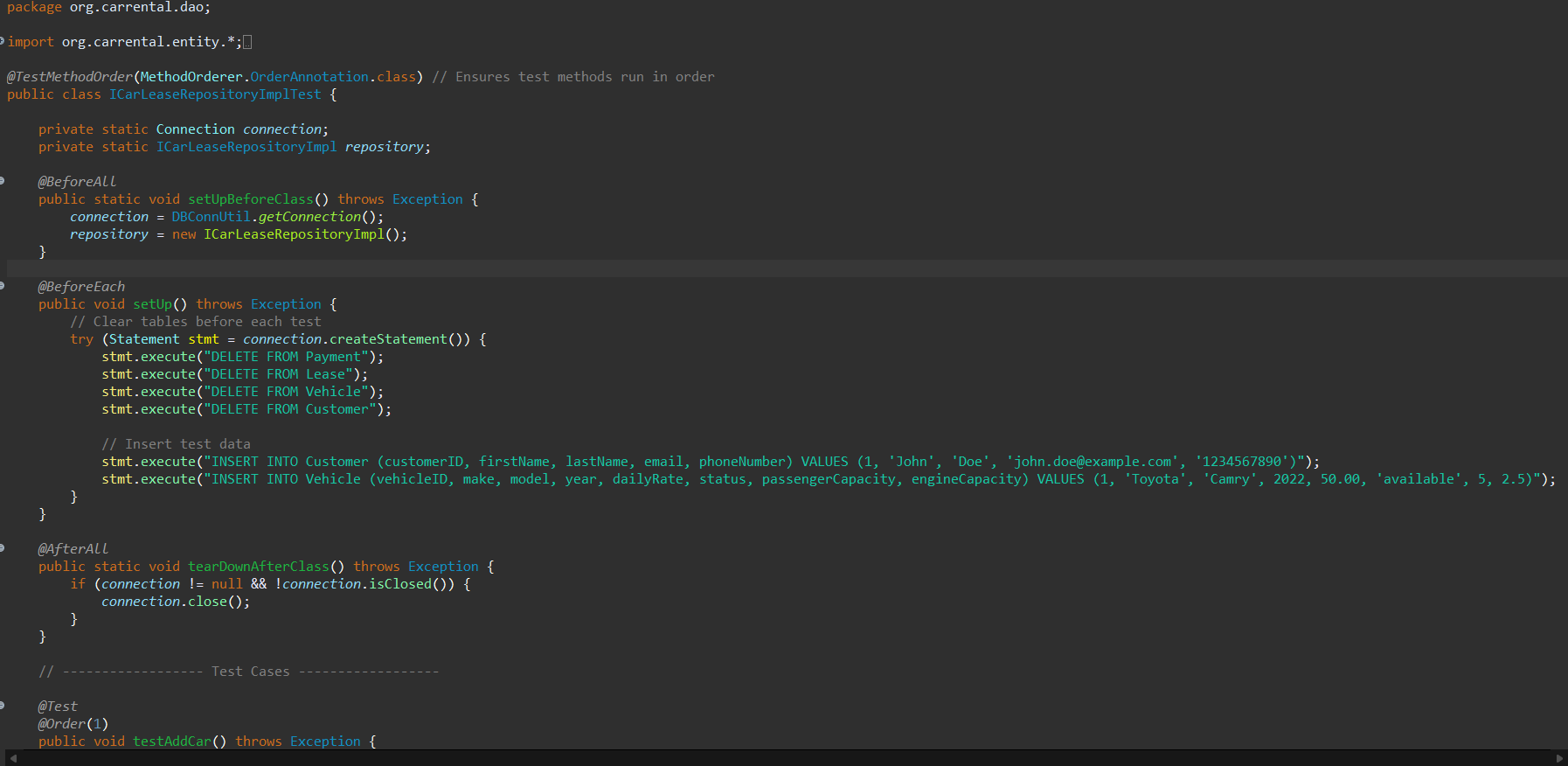
|  |
| --- |
| package org.carrental.util;  import java.sql.Connection;  import java.sql.DriverManager;  import java.sql.SQLException;  public class DBConnUtil {  private static Connection connection;  public static Connection getConnection() {  if (connection == null) {  try {  String connectionString = DBPropertyUtil.getPropertyString("db.properties");  connection = DriverManager.getConnection(connectionString);  } catch (SQLException e) {  e.printStackTrace();  }  }  return connection;  }  } |

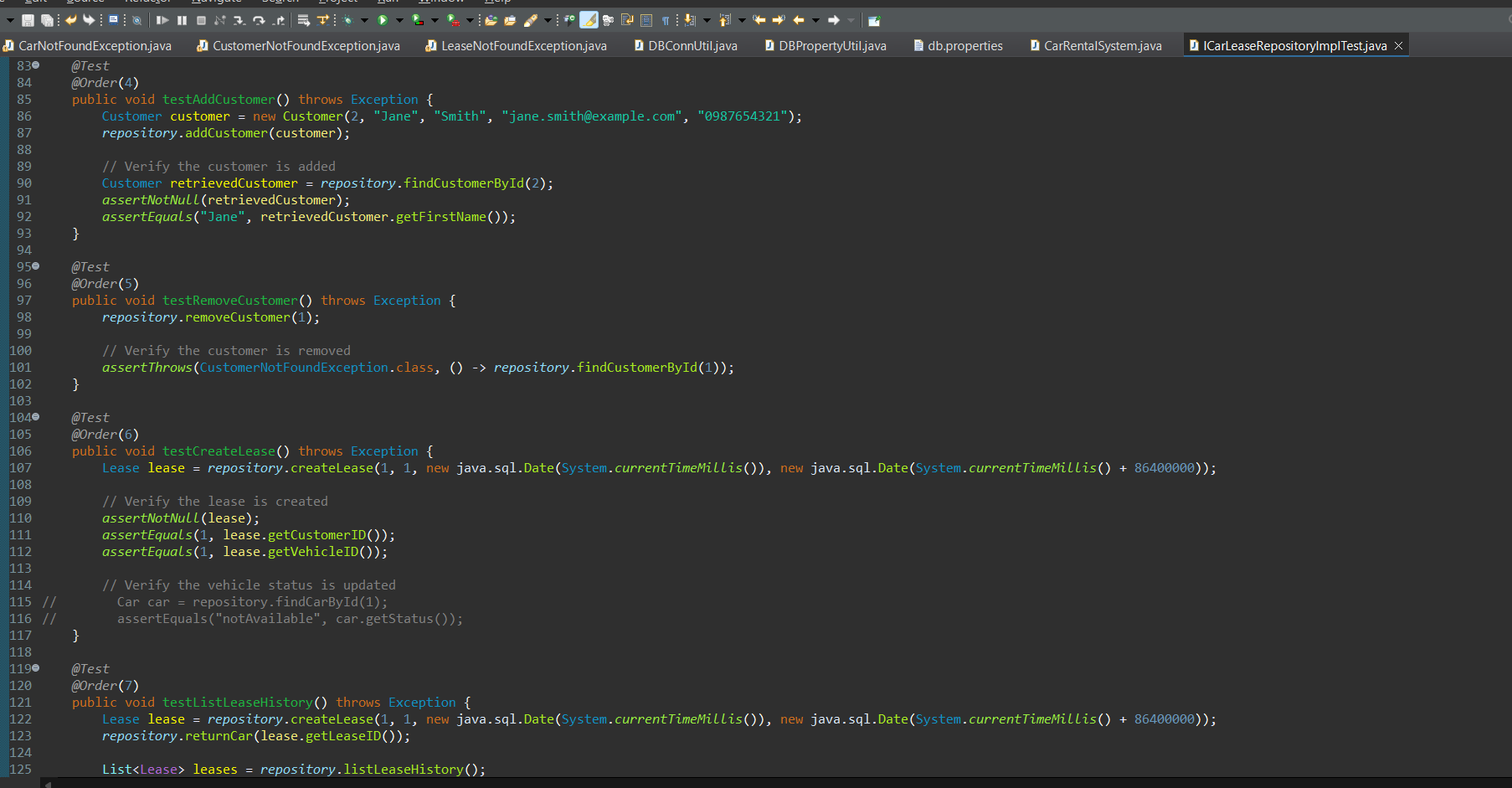
**DBProperties.java**

|  |
| --- |
| package org.carrental.util;  import java.io.FileInputStream;  import java.io.IOException;  import java.util.Properties;  public class DBPropertyUtil  {  public static String getPropertyString(String filename)  {  // String constring=null;  String url = null;  try {  Properties prop = new Properties();  FileInputStream fis = new FileInputStream(filename);  prop.load(fis);  url = prop.getProperty("url")+"/"+prop.getProperty("database")+"?"+"user="+prop.getProperty("user")+"&password="+prop.getProperty("password");  }  catch(IOException ex)  {  ex.printStackTrace();  }    // System.out.print(url);    return url;  }  // public static void main(String[] args)  // {  // String URL = DBPropertyUtil.connectionstring("db.properties");  // System.out.println("..................Here is the Your URL.............\n");  // System.out.println(URL);  // }    } |

DB.properties

|  |
| --- |
| url=jdbc:mysql://localhost:3306  database=car\_rental\_system  user=root  password= |

**TestCases**

****  

Output:

Welcome to the Car Rental System!

1. Add Car

2. Remove Car

3. List Available Cars

4. Add Customer

5. Remove Customer

6. List Customers

7. Create Lease

8. List Active Leases

9. List Lease History

10. Record Payment

11. Exit

Choose an option: 2

Enter Car ID to remove:

1

Car removed successfully.

1. Add Car

2. Remove Car

3. List Available Cars

4. Add Customer

5. Remove Customer

6. List Customers

7. Create Lease

8. List Active Leases

9. List Lease History

10. Record Payment

11. Exit

Choose an option: 5

Enter Customer ID to remove:

1

Customer removed successfully.

1. Add Car

2. Remove Car

3. List Available Cars

4. Add Customer

5. Remove Customer

6. List Customers

7. Create Lease

8. List Active Leases

9. List Lease History

10. Record Payment

11. Exit

Choose an option: 10

Enter Payment Details (Lease ID, Amount):

1

25001.00

Payment recorded successfully.

1. Add Car

2. Remove Car

3. List Available Cars

4. Add Customer

5. Remove Customer

6. List Customers

7. Create Lease

8. List Active Leases

9. List Lease History

10. Record Payment

11. Exit

Choose an option: 11

Thanks For Using Our Car Rental System!!!

>> Database connection closed Successfully <<.