

Snapshots of the application:

1. Login page



The screenshot shows a web browser window with the address bar displaying `http://localhost:8085/CS5513HW2/login.jsp`. The page title is "CS5513 Web Application" and the subtitle is "Login Page". The login form consists of two input fields: "User ID:" and "Password:", each followed by a text input box. Below the input fields is a "Login" button.

2. Menu page

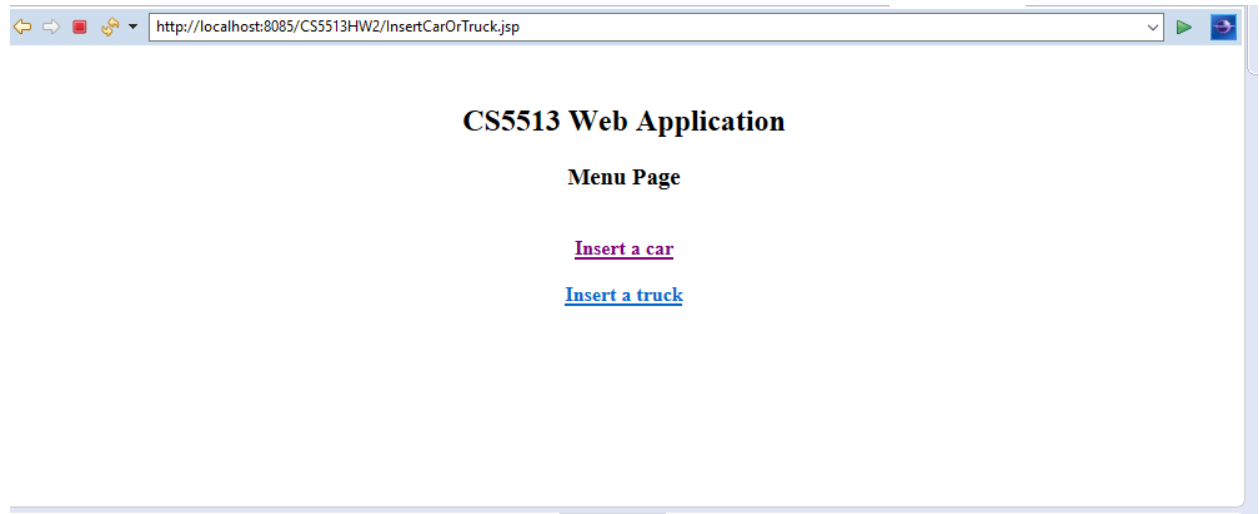


The screenshot shows a web browser window with the address bar displaying `http://localhost:8085/CS5513HW2/menu.jsp`. The page title is "Menu Page". The page contains several menu items, each preceded by a purple underlined text: "Insert a car or a truck", "Insert a driving instructor with a particular car or a particular truck.", "Insert a student driver that had a session with a particular driving instructor.", "Find all student drivers living in a given city.", "Find the IDs of the student drivers who had a session with a particular driving instructor", "List the names, IDs and addresses of all the student drivers who had a session on a particular date in a 2-door Honda Civic.", "Display the license plates, models, makes and years of all the cars that are equipped with a particular equipment option.", "List the names of all driving instructors who have trucks that weigh more than a particular number of pounds.", and "Delete all the cars that have four doors". The bottom of the browser window shows the Tomcat v9.0 Server console output, which includes the following text:

```
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 1:10:35 PM)
INFO: Starting ProtocolHandler [http-nio-8085]
Mar 31, 2020 1:10:37 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-nio-8009"]
Mar 31, 2020 1:10:37 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [966] milliseconds
invoking the insert car method
00001modelmake1
rows updated are: 1
Succesfully logged in
```

3. Query1

Insert a car or a truck.



Insert car page:



Car record1:

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_car_action.jsp?licenseplate=0002&model=model2&make=make2&year=2000&op1=option1&op2=option2`. The main content area displays the message: **Car Record Inserted! Click Here to Go Back to Menu Page** in purple text. Below the browser window, a console window is open, showing the following log messages:

```
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 1:29:23 PM)
00001model1make1
Succesfully logged in
invoking the insert car method
0002model2make2
rows updated are: 1
```

Car record 2

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_car_action.jsp?licenseplate=00003&model=Civic&make=Honda+&year=2000&op1=option1&op2=option2`. The main content area displays the message: **Car Record Inserted! Click Here to Go Back to Menu Page** in purple text. Below the browser window, a console window is open, showing the following log messages:

```
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 1:29:23 PM)
0002model2make2
rows updated are: 1
invoking the insert car method
00003CivicHonda
rows updated are: 1
```

Car record 3

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_car_action.jsp?licenseplate=00003&model=Civic&make=Honda+&year=2000&op1=option1&op2=option1`. The main content area displays a purple message: **Car Record Inserted! Click Here to Go Back to Menu Page**. The bottom console shows the following log messages:

```
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 1:29:23 PM)
0002model2make2
rows updated are: 1
invoking the insert car method
00003CivicHonda
rows updated are: 1
```

Insert truck page:

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_truck.jsp`. The main content area displays the title **CS5513 Web Application** and the subtitle **Insert a New car Record**. Below the subtitle is a form with the following fields:

licenseplate :	<input type="text"/>
model:	<input type="text"/>
make:	<input type="text"/>
year:	<input type="text"/>
Equipment option 1:	<input type="text"/>
equipment option 2:	<input type="text"/>
equipment option 3:	<input type="text"/>
CabinType:	<input type="text"/>
Weight:	<input type="text"/>

Below the form is a button labeled **Insert Truck**. The bottom console shows the following log messages:

```
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 1:29:23 PM)
```

Truck record 1

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_truck_action.jsp?licenseplate=00005&model=model5&make=make5&year=2000&op1=option2&op2=opti`. The main content area displays the message: **Truck Record Inserted! Click Here to Go Back to Menu Page**.

Below the browser window is an IDE console window. The console title bar reads "Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 1:52:17 PM)". The console output shows the following log messages:

```
Mar 31, 2020 1:52:19 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [781] milliseconds
invoking the insert car method
00005model5make5
rows updated are: 1
```

Truck record 2

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_truck_action.jsp?licenseplate=00006&model=model6&make=make6&year=2000&op1=option3&op2=opti`. The main content area displays the message: **Truck Record Inserted! Click Here to Go Back to Menu Page**.

Below the browser window is an IDE console window. The console title bar reads "Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 1:52:17 PM)". The console output shows the following log messages:

```
00005model5make5
rows updated are: 1
invoking the insert car method
00006model6make6
rows updated are: 1
```

4) query 2 Insert a driving instructor with a particular car or a particular truck.

http://localhost:8085/CS5513HW2/insert_driver.jsp

CS5513 Web Application

Insert a New driver Record

driver id:	<input type="text"/>
driver name:	<input type="text"/>
licenseplate :	<input type="text"/>

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Driver record1:

http://localhost:8085/CS5513HW2/insert_driver_action.jsp?driverid=d1&drivername=dname1&licenseplate=00003

[Driver Record Inserted for a particular car/truck! Click Here to Go Back to Menu Page](#)

Markers Properties Servers Data Source Explorer Snippets Console

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:15:30 PM)

```
INFO: Server startup in [816] milliseconds
invoking the insert driver insert method
didname100003
rows updated for drivinginst_table are: 1
rows updated for has_car_table are: 1
```

Driver record2:

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_driver_action.jsp?driverid=d2&drivername=dname2&licenseplate=00004`. The browser displays a message: [Driver Record Inserted for a particular car/truck! Click Here to Go Back to Menu Page](#).

Below the browser window is the IDE console. The console output for Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:15:30 PM) is as follows:

```
rows updated for has_car_table are: 1
invoking the insert driver insert method
d2dname200004
rows updated for drivinginst_table are: 1
rows updated for has_car_table are: 1
```

Driver record 3:

The screenshot shows a web browser window with the address bar containing the URL: `http://localhost:8085/CS5513HW2/insert_driver_action.jsp?driverid=d3&drivername=dname3&licenseplate=0002`. The browser displays a message: [Driver Record Inserted for a particular car/truck! Click Here to Go Back to Menu Page](#).

Below the browser window is the IDE console. The console output for Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:15:30 PM) is as follows:

```
rows updated for has_car_table are: 1
invoking the insert driver insert method
d3dname30002
rows updated for drivinginst_table are: 1
rows updated for has_car_table are: 1
```

Driver record 4:

The screenshot shows a web browser window with the URL `http://localhost:8085/CS5513HW2/insert_driver_action.jsp?driverid=d6&drivername=dname6&licenseplate=00005`. The page content displays the message: **Driver Record Inserted for a particular car/truck! Click Here to Go Back to Menu Page**.

Below the browser window is the IDE console. The console output for the Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:15:30 PM) is as follows:

```
Mar 31, 2020 2:30:37 PM org.apache.catalina.core.StandardContext reload
INFO: Reloading Context with name [/CS5513HW2] is completed
invoking the insert driver insert method
d4dname400005
invoking the insert driver insert method
d6dname600005
rows updated for drivinginst_table are: 1
rows updated for has_car_table are: 0
rows updated for has_car_table are: 1
```

Driver record 5:

The screenshot shows a web browser window with the URL `http://localhost:8085/CS5513HW2/insert_driver_action.jsp?driverid=dr7&drivername=dname7&licenseplate=00006`. The page content displays the message: **Driver Record Inserted for a particular car/truck! Click Here to Go Back to Menu Page**.

Below the browser window is the IDE console. The console output for the Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:15:30 PM) is as follows:

```
omcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:15:30 PM)
i6dname600005
rows updated for drivinginst_table are: 1
rows updated for has_car_table are: 0
rows updated for has_car_table are: 1
invoking the insert driver insert method
lr7dname700006
rows updated for drivinginst_table are: 1
rows updated for has_car_table are: 0
rows updated for has_car_table are: 1
```


5) query 3: Insert a student driver that had a session with a particular driving instructor
Student driver page

http://localhost:8085/CS5513HW2/insert_student.jsp

CS5513 Web Application

Insert a student Record

studentid :	<input type="text"/>
studentname:	<input type="text"/>
street:	<input type="text"/>
city:	<input type="text"/>
day:	<input type="text"/>
month:	<input type="text"/>
year:	<input type="text"/>
driverid:	<input type="text"/>

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Markers Properties Servers Data Source Explorer Snippets Console

Student driver 1:

http://localhost:8085/CS5513HW2/insert_student_action2.jsp?studentid=s4&studentname=sname4&street=street4&city=city4&day=4&month=Jan&year=2000&driverid=d6

[student Record Inserted! Click Here to Go Back to Menu Page](#)

Markers Properties Servers Data Source Explorer Snippets Console

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:57:04 PM)

```
invoking the insert car method
s2nulld2
rows updated for student_table are: 1
rows updated for hassession_table are: 1
invoking the insert car method
s3nulld3
rows updated for student_table are: 1
rows updated for hassession_table are: 1
invoking the insert car method
s4nulld6
rows updated for student_table are: 1
rows updated for hassession_table are: 1
```

Student driver 2

The screenshot shows a web browser window with the URL `http://localhost:8085/CS5513HW2/insert_student_action2.jsp?studentid=s3&studentname=sname3&street=street3&city=city3&day=3&month=Jan&year=2000&driverid=d3`. The page content displays the message: **student Record Inserted! Click Here to Go Back to Menu Page**.

Below the browser window is the IDE console for Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:57:04 PM). The console output includes:

```
Mar 31, 2020 2:58:58 PM org.apache.jasper.servlet.TldScanner scanJars
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no
Mar 31, 2020 2:58:58 PM org.apache.catalina.core.StandardContext reload
INFO: Reloading Context with name [/CS5513HW2] is completed
invoking the insert car method
s2nulld2
rows updated for student_table are: 1
rows updated for hassession_table are: 1
invoking the insert car method
s3nulld3
rows updated for student_table are: 1
rows updated for hassession_table are: 1
```

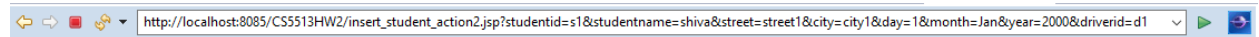
Student driver 3

The screenshot shows a web browser window with the URL `http://localhost:8085/CS5513HW2/insert_student_action2.jsp?studentid=s2&studentname=sname2&street=street2&city=city2&day=2&month=Jan&year=2000&driverid=d2`. The page content displays the message: **student Record Inserted! Click Here to Go Back to Menu Page**.

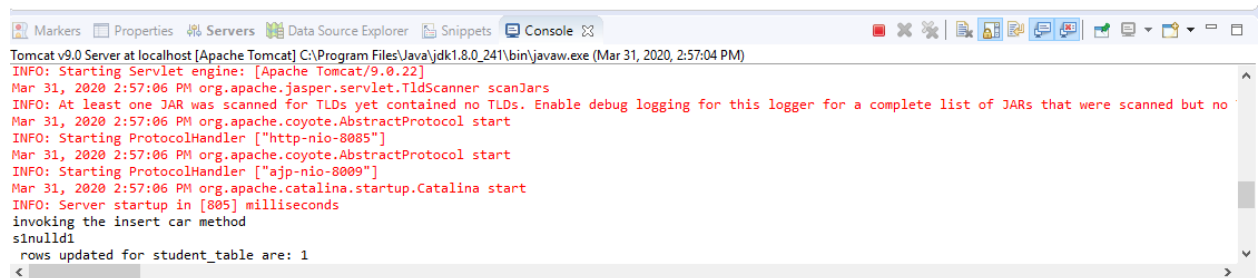
Below the browser window is the IDE console for Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 2:57:04 PM). The console output includes:

```
WARNING: The web application [CS5513HW2] appears to have started a thread named [Timer-0] but has failed to stop it. This is very likely to create a memory l
java.lang.Object.wait(Native Method)
java.lang.Object.wait(Object.java:502)
java.util.TimerThread.mainLoop(Timer.java:526)
java.util.TimerThread.run(Timer.java:505)
Mar 31, 2020 2:58:58 PM org.apache.jasper.servlet.TldScanner scanJars
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no
Mar 31, 2020 2:58:58 PM org.apache.catalina.core.StandardContext reload
INFO: Reloading Context with name [/CS5513HW2] is completed
invoking the insert car method
s2nulld2
rows updated for student_table are: 1
rows updated for hassession_table are: 1
```

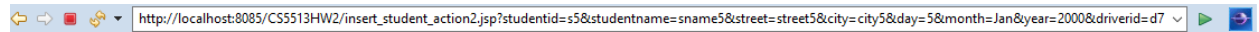
Student driver 4



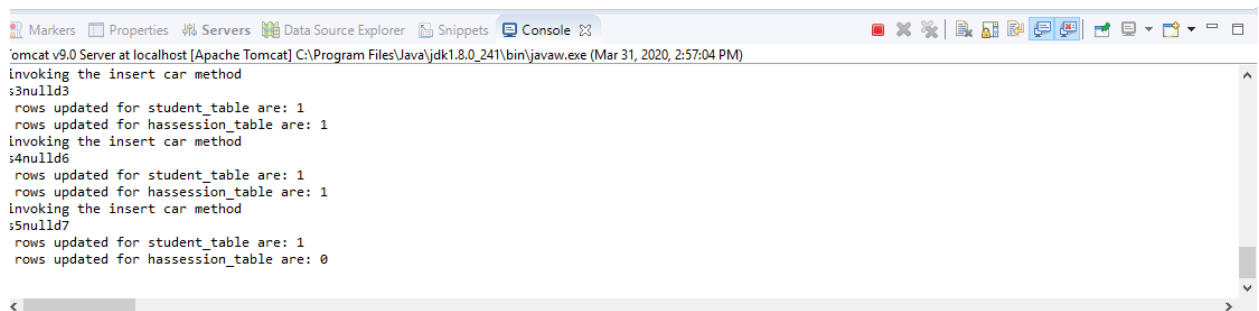
[student Record Inserted! Click Here to Go Back to Menu Page](#)



Student driver 5

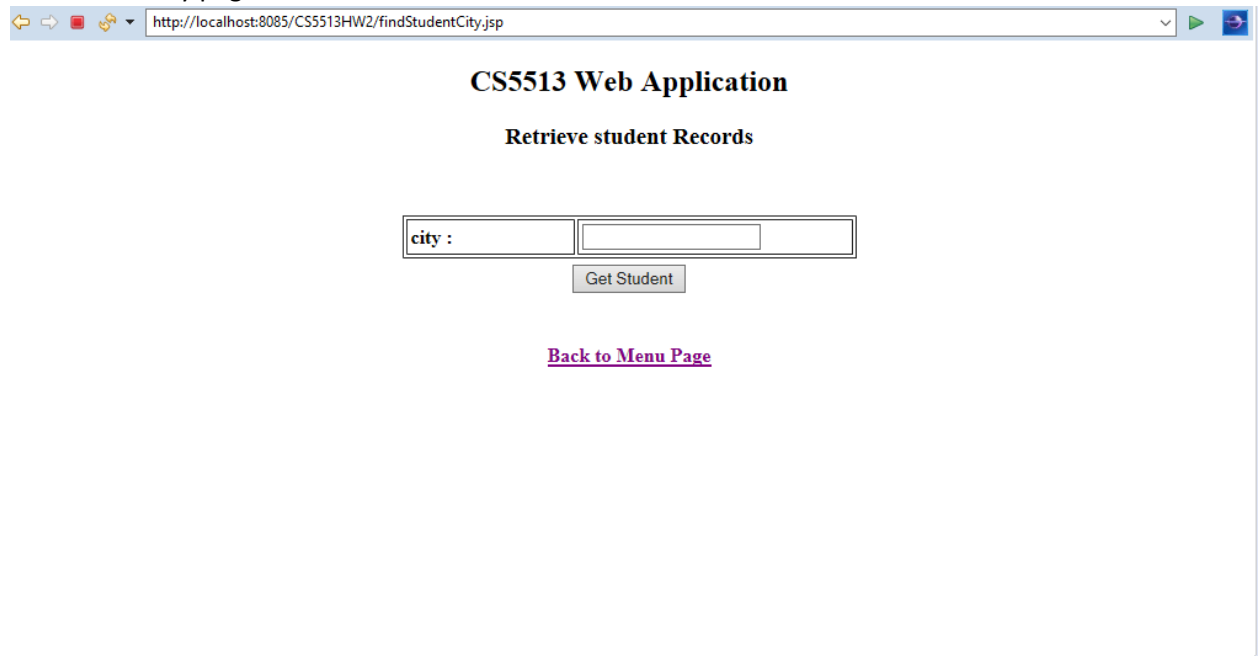


[student Record Inserted! Click Here to Go Back to Menu Page](#)



6) Query 4: Find all student drivers living in a given city.

Students in city page



CS5513 Web Application

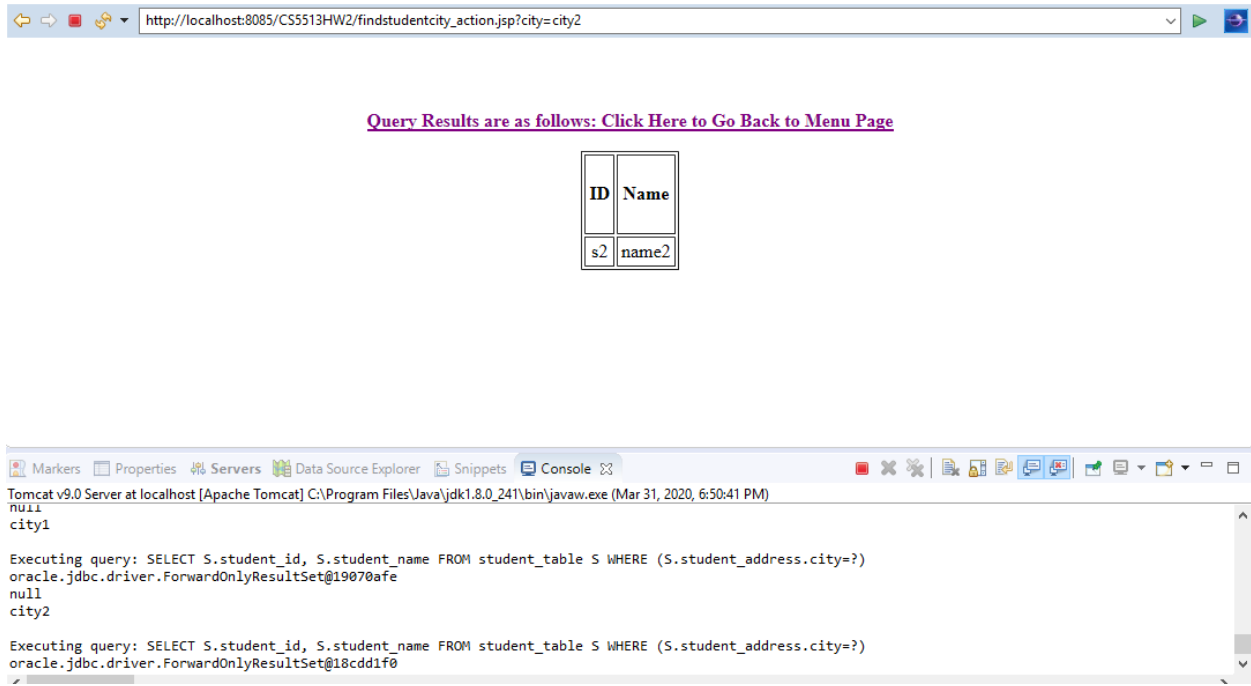
Retrieve student Records

city :

Get Student

[Back to Menu Page](#)

Student drivers in City2:



Query Results are as follows: [Click Here to Go Back to Menu Page](#)

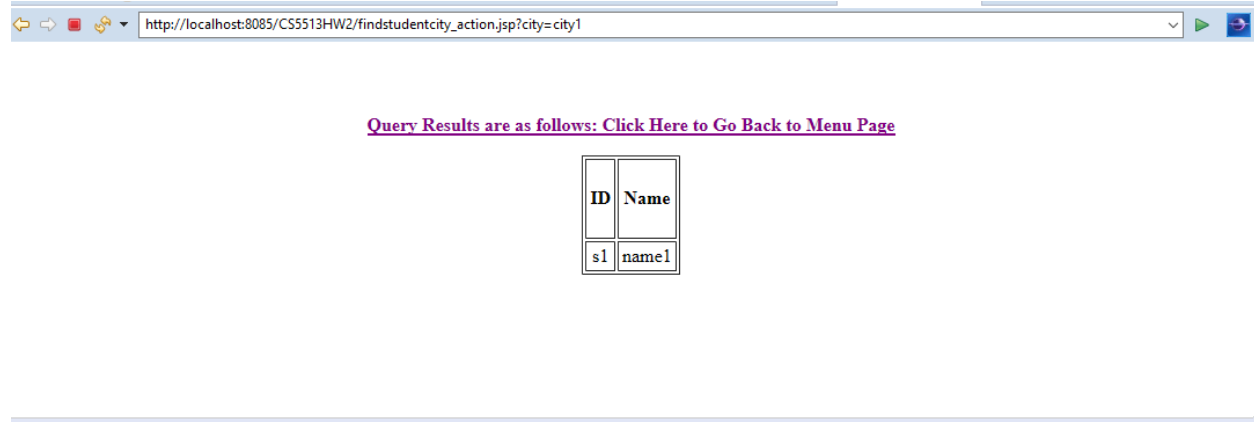
ID	Name
s2	name2

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 6:50:41 PM)

Executing query: SELECT S.student_id, S.student_name FROM student_table S WHERE (S.student_address.city=?)
oracle.jdbc.driver.ForwardOnlyResultSet@19070afe
null
city2

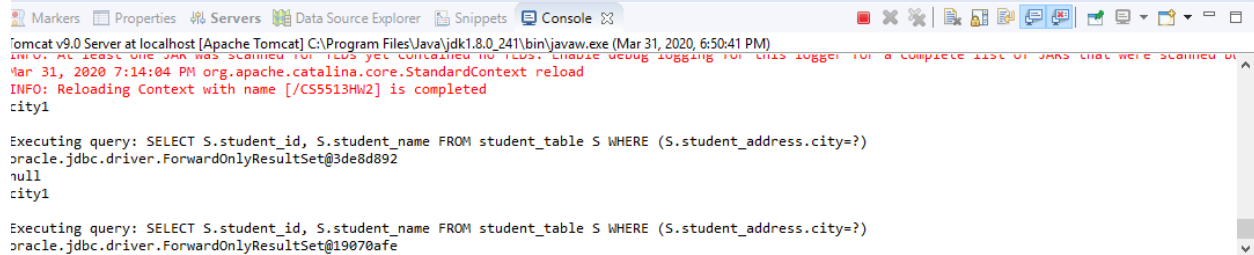
Executing query: SELECT S.student_id, S.student_name FROM student_table S WHERE (S.student_address.city=?)
oracle.jdbc.driver.ForwardOnlyResultSet@18cdd1f0

Student drivers in City1



The screenshot shows a web browser window with the address bar displaying `http://localhost:8085/CS5513HW2/findstudentcity_action.jsp?city=city1`. The main content area displays the text "Query Results are as follows: Click Here to Go Back to Menu Page" in purple. Below this text is a table with two columns, "ID" and "Name", and one row containing the values "s1" and "name1".

ID	Name
s1	name1




The screenshot shows the IDE console with the following output:

```
tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 6:50:41 PM)
INFO: At least one JAR was scanned for TOS yet contained no TOS. Enable debug logging for this logger for a complete list of JARs that were scanned on
Mar 31, 2020 7:14:04 PM org.apache.catalina.core.StandardContext reload
INFO: Reloading Context with name [/CS5513HW2] is completed
city1

Executing query: SELECT S.student_id, S.student_name FROM student_table S WHERE (S.student_address.city=?)
oracle.jdbc.driver.ForwardOnlyResultSet@3de8d892
null
city1

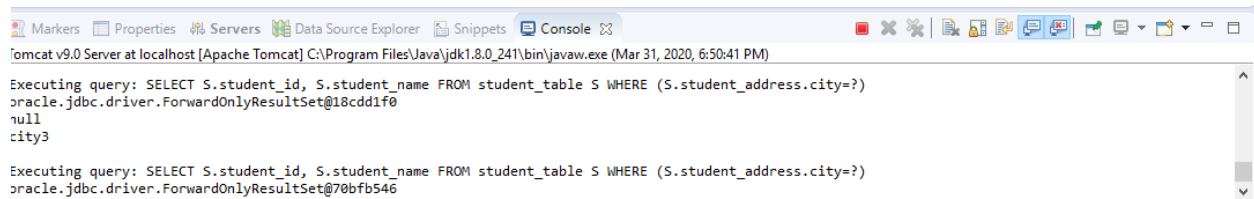
Executing query: SELECT S.student_id, S.student_name FROM student_table S WHERE (S.student_address.city=?)
oracle.jdbc.driver.ForwardOnlyResultSet@19070afe
..
```

Student drivers in City3



The screenshot shows a web browser window with the address bar displaying `http://localhost:8085/CS5513HW2/findstudentcity_action.jsp?city=city3`. The main content area displays the text "Query Results are as follows: Click Here to Go Back to Menu Page" in purple. Below this text is a table with two columns, "ID" and "Name", and one row containing the values "s3" and "name3".

ID	Name
s3	name3



The screenshot shows the IDE console with the following output:

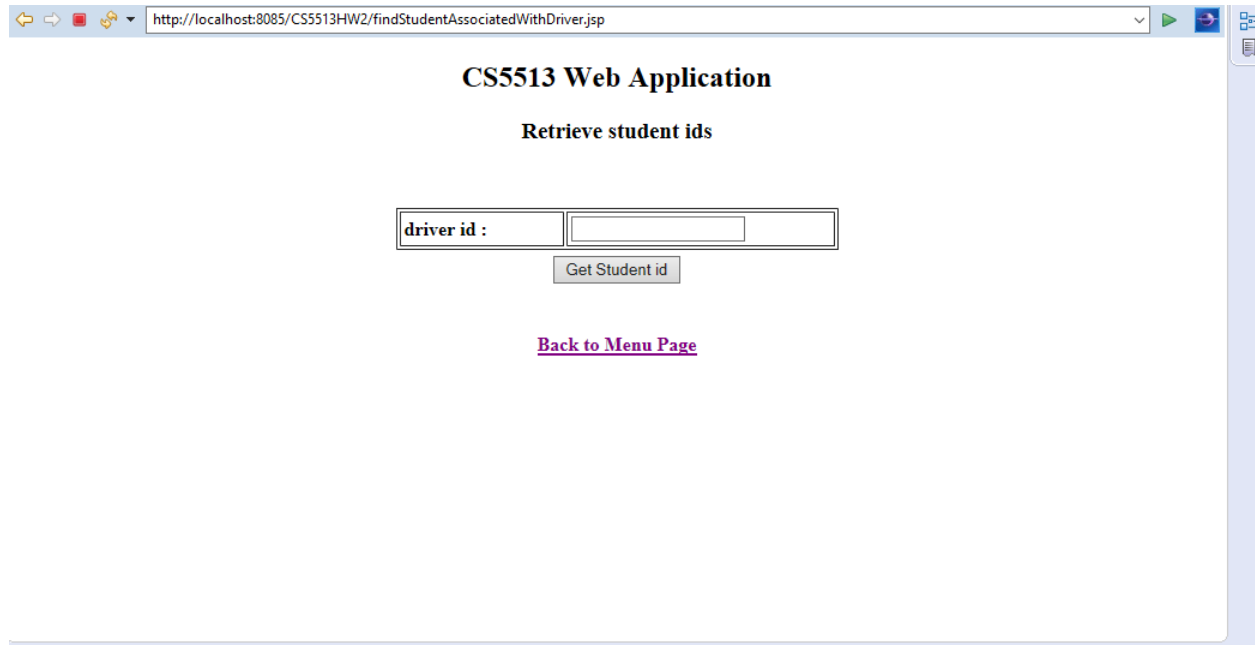
```
tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 6:50:41 PM)

Executing query: SELECT S.student_id, S.student_name FROM student_table S WHERE (S.student_address.city=?)
oracle.jdbc.driver.ForwardOnlyResultSet@18cdd1f0
null
city3

Executing query: SELECT S.student_id, S.student_name FROM student_table S WHERE (S.student_address.city=?)
oracle.jdbc.driver.ForwardOnlyResultSet@70bfb546
..
```

7) Query 5: Find the IDs of the student drivers who had a session with a particular driving instructor

Web page:



The screenshot shows a web browser window with the address bar displaying `http://localhost:8085/CS5513HW2/findStudentAssociatedWithDriver.jsp`. The page content is as follows:

CS5513 Web Application

Retrieve student ids

driver id :

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Driver 2:



The screenshot shows a web browser window with the URL `http://localhost:8085/CS5513HW2/findstudentassociatedWithDriver_action.jsp?driverid=d2`. The page content displays the text "Query Results are as follows: Click Here to Go Back to Menu Page" in purple. Below this text is a table with one column labeled "ID" and one row containing the value "s2".

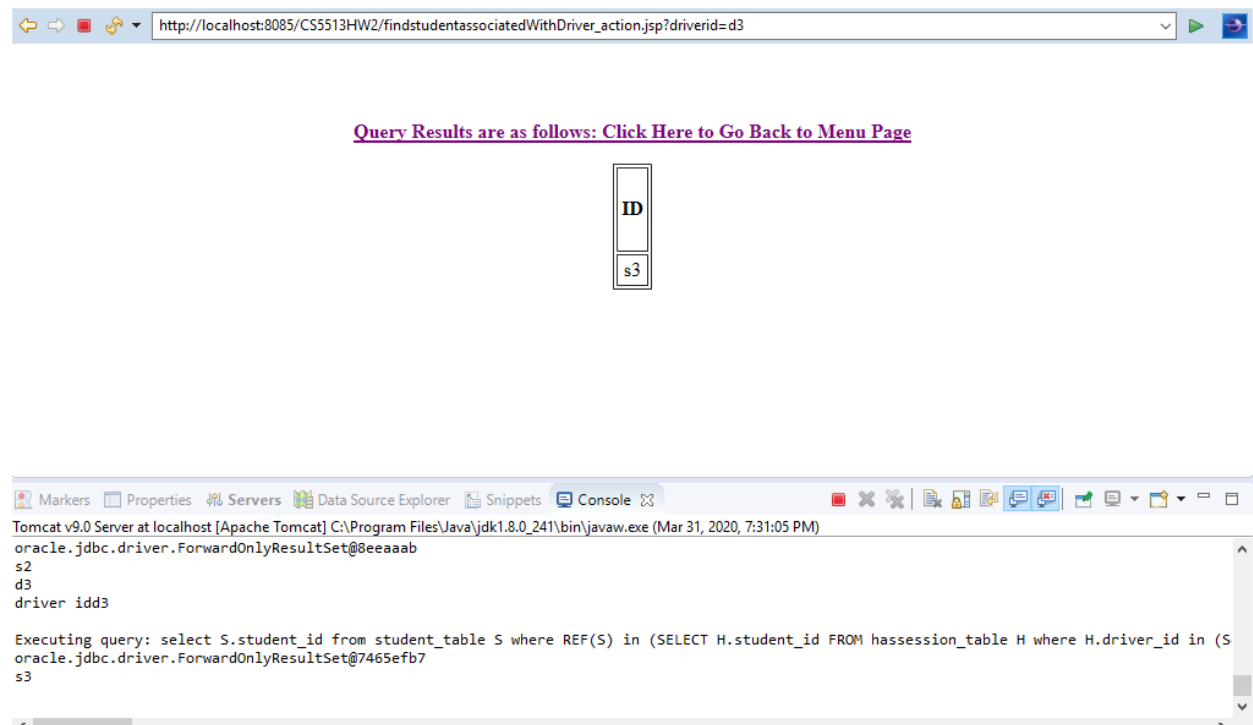
ID
s2

The browser's console window is open, showing the following output:

```
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 7:31:05 PM)
oracle.jdbc.driver.ForwardOnlyResultSet@88b18ba
s1
d2
driver idd2

Executing query: select S.student_id from student_table S where REF(S) in (SELECT H.student_id FROM hassession_table H where H.driver_id in (S
oracle.jdbc.driver.ForwardOnlyResultSet@8eeaaab
s2
```

Driver 3



The screenshot shows a web browser window with the URL `http://localhost:8085/CS5513HW2/findstudentassociatedWithDriver_action.jsp?driverid=d3`. The page content displays the text "Query Results are as follows: Click Here to Go Back to Menu Page" in purple. Below this text is a table with one column labeled "ID" and one row containing the value "s3".

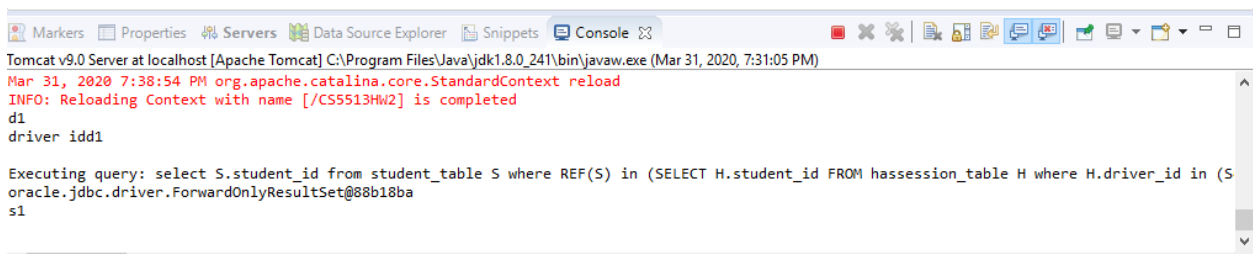
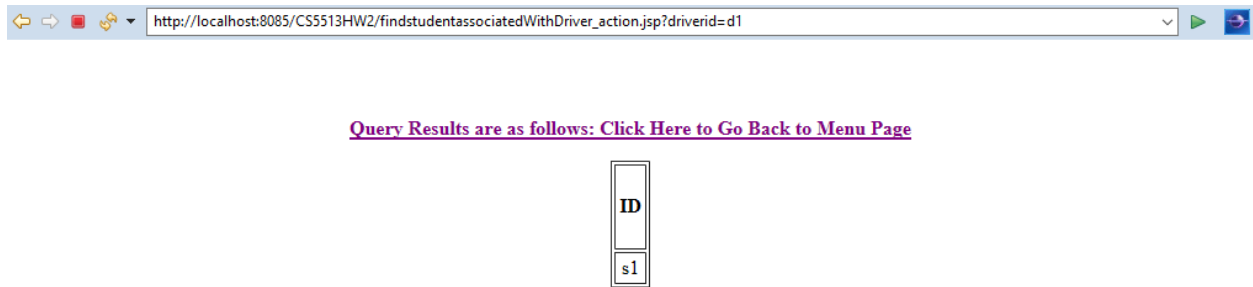
ID
s3

The browser's console window is open, showing the following output:

```
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 7:31:05 PM)
oracle.jdbc.driver.ForwardOnlyResultSet@8eeaaab
s2
d3
driver idd3

Executing query: select S.student_id from student_table S where REF(S) in (SELECT H.student_id FROM hassession_table H where H.driver_id in (S
oracle.jdbc.driver.ForwardOnlyResultSet@7465efb7
s3
```

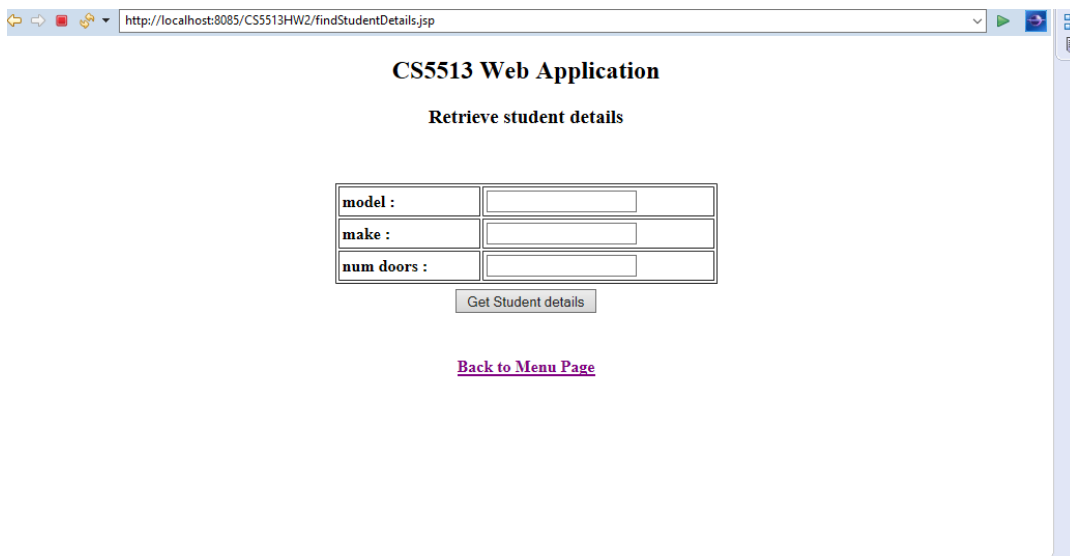
Driver 1



8) Query 6

List the names, IDs and addresses of all the student drivers who had a session on a particular date in a 2-door Honda Civic.

Web page:



Honda civic 2 door

http://localhost:8085/CS5513HW2/findstudentDetails_action.jsp?model=Civic&make=Honda&numdoors=2

[Query Results are as follows: Click Here to Go Back to Menu Page](#)

ID	Name	Street	City
----	------	--------	------

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 8:26:48 PM)

```
INFO: Starting ProtocolHandler ["http-nio-8085"]
Mar 31, 2020 8:26:50 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-nio-8009"]
Mar 31, 2020 8:26:50 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [973] milliseconds
```

Executing query: select S.student_id, S.student_name, S.student_address.street,S.student_address.city from student_table S where REF(S) in (se
oracle.jdbc.driver.ForwardOnlyResultSet@3a8d7bfe

Model2 make2 2 door

http://localhost:8085/CS5513HW2/findStudentDetails.jsp

CS5513 Web Application

Retrieve student details

model :	<input type="text" value="model2"/>
make :	<input type="text" value="make2"/>
num doors :	<input type="text" value="2"/>

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Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 8:26:48 PM)

```
INFO: Starting ProtocolHandler ["http-nio-8085"]
Mar 31, 2020 8:26:50 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-nio-8009"]
Mar 31, 2020 8:26:50 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [973] milliseconds
```

Executing query: select S.student_id, S.student_name, S.student_address.street,S.student_address.city from student_table S where REF(S) in (se
oracle.jdbc.driver.ForwardOnlyResultSet@3a8d7bfe

http://localhost:8085/CS5513HW2/findstudentDetails_action.jsp?model=model2&make=make2&numdoors=2

[Query Results are as follows: Click Here to Go Back to Menu Page](#)

ID	Name	Street	City
s3	sname3	street3	city3

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 8:26:48 PM)

Executing query: select S.student_id, S.student_name, S.student_address.street,S.student_address.city from student_table S where REF(S) in (se
oracle.jdbc.driver.ForwardOnlyResultSet@3a8d7bfe

Executing query: select S.student_id, S.student_name, S.student_address.street,S.student_address.city from student_table S where REF(S) in (se
oracle.jdbc.driver.ForwardOnlyResultSet@42ccf9b9

Executing query: select S.student_id, S.student_name, S.student_address.street,S.student_address.city from student_table S where REF(S) in (se
oracle.jdbc.driver.ForwardOnlyResultSet@560ab41d

9) query 7: Display the license plates, models, makes and years of all the cars that are equipped with a particular equipment option

Web page:

http://localhost:8085/CS5513HW2/findCarDetails.jsp

CS5513 Web Application

Retrieve student details

equiptoption :

[Back to Menu Page](#)

Option 1

http://localhost:8085/CS5513HW2/findCarDetails_action.jsp?equipmentoption=option1

Query Results are as follows: Click Here to Go Back to Menu Page

lisenseplate	model	make	year
00001	model1	make1	2000
0002	model2	make2	2000
00003	Civic	Honda	2000

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 8:39:25 PM)

INFO: Starting ProtocolHandler ["http-nio-8085"]
Mar 31, 2020 8:39:27 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-nio-8009"]
Mar 31, 2020 8:39:27 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [904] milliseconds

Executing query: select C.licenseplate, C.model, C.make, C.year from car_table C where (?) in(SELECT * FROM table(C.EQUIPMENT_OPTIONS))
oracle.jdbc.driver.ForwardOnlyResultSet@1a3475b

Option 2

http://localhost:8085/CS5513HW2/findCarDetails_action.jsp?equipmentoption=option2

Query Results are as follows: Click Here to Go Back to Menu Page

lisenseplate	model	make	year
00001	model1	make1	2000
0002	model2	make2	2000
00003	Civic	Honda	2000
00004	model4	make4	2000

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 8:39:25 PM)

Executing query: select C.licenseplate, C.model, C.make, C.year from car_table C where (?) in(SELECT * FROM table(C.EQUIPMENT_OPTIONS))
oracle.jdbc.driver.ForwardOnlyResultSet@1a3475b

Executing query: select C.licenseplate, C.model, C.make, C.year from car_table C where (?) in(SELECT * FROM table(C.EQUIPMENT_OPTIONS))
oracle.jdbc.driver.ForwardOnlyResultSet@311adb9

Executing query: select C.licenseplate, C.model, C.make, C.year from car_table C where (?) in(SELECT * FROM table(C.EQUIPMENT_OPTIONS))
oracle.jdbc.driver.ForwardOnlyResultSet@36f9995e

10) query 8) List the names of all driving instructors who have trucks that weigh more than a particular number of pounds

Web page:

The screenshot shows a web browser window with the URL `http://localhost:8085/CS5513HW2/findDriverName.jsp`. The page title is "CS5513 Web Application". Below the title, the heading "Retrieve driver details" is centered. The form consists of a label "weight :" followed by a text input field. Below the input field is a button labeled "Get drivername details". At the bottom of the form, there is a link labeled "Back to Menu Page". The browser's status bar at the bottom shows various tabs: Markers, Properties, Servers, Data Source Explorer, Snippets, and Console.

Weight : 40

The screenshot shows the same web browser window, but the URL is now `http://localhost:8085/CS5513HW2/findDriverName_action2.jsp?weight=40`. The page displays the text "Query Results are as follows: Click Here to Go Back to Menu Page" in purple. Below this text is a table with one row. The table has a header row with the text "driver name" and a data row with the text "dname7". The browser's status bar at the bottom shows the same tabs as the previous screenshot, but the Console tab is now active, displaying the following log messages:

```
tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 8:49:22 PM)
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were
Mar 31, 2020 8:49:24 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-8085"]
Mar 31, 2020 8:49:24 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-nio-8009"]
Mar 31, 2020 8:49:24 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [895] milliseconds
oracle.jdbc.driver.ForwardOnlyResultSet@41bea8aa
```

weight :30

http://localhost:8085/CS5513HW2/findDriverName_action2.jsp?weight=30

Query Results are as follows: [Click Here to Go Back to Menu Page](#)

driver name
dname6
dname7

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_241\bin\javaw.exe (Mar 31, 2020, 8:49:22 PM)

```
Mar 31, 2020 8:49:24 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-8085"]
Mar 31, 2020 8:49:24 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-nio-8009"]
Mar 31, 2020 8:49:24 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [895] milliseconds
oracle.jdbc.driver.ForwardOnlyResultSet@41bea8aa
oracle.jdbc.driver.ForwardOnlyResultSet@7a857934
```