

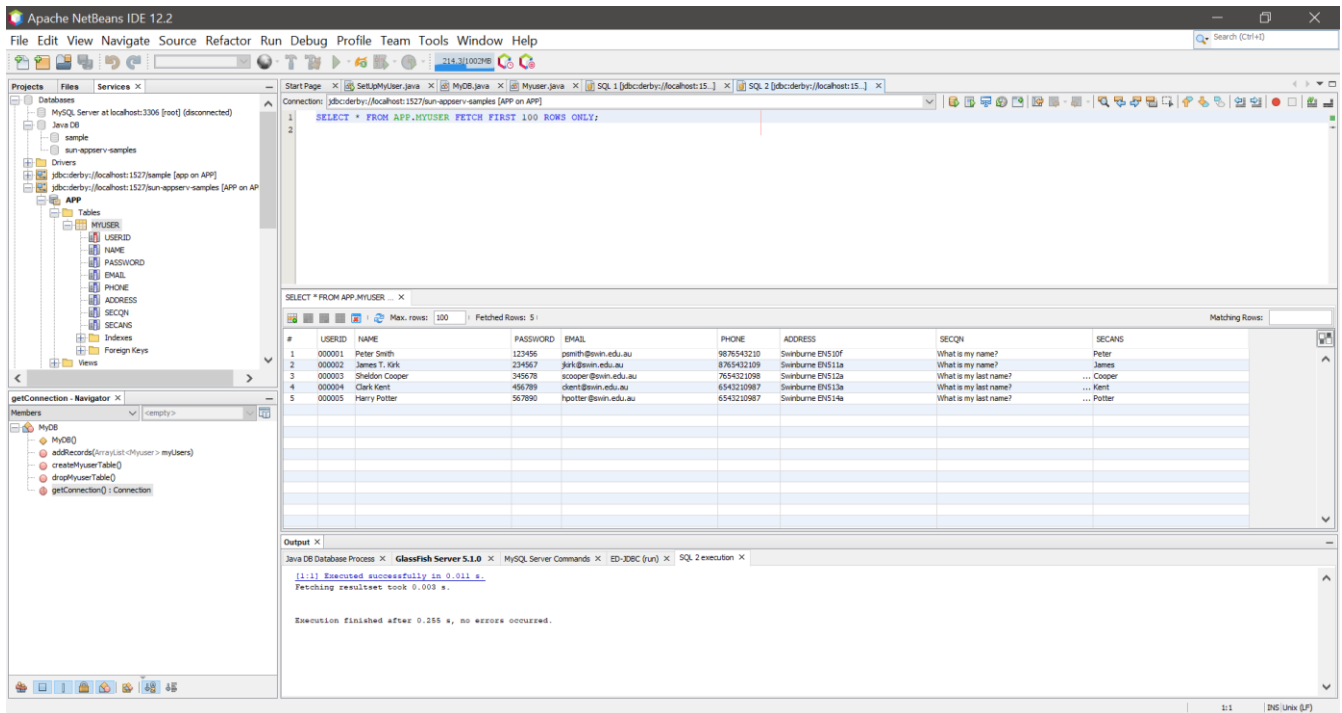
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ID: 103172423

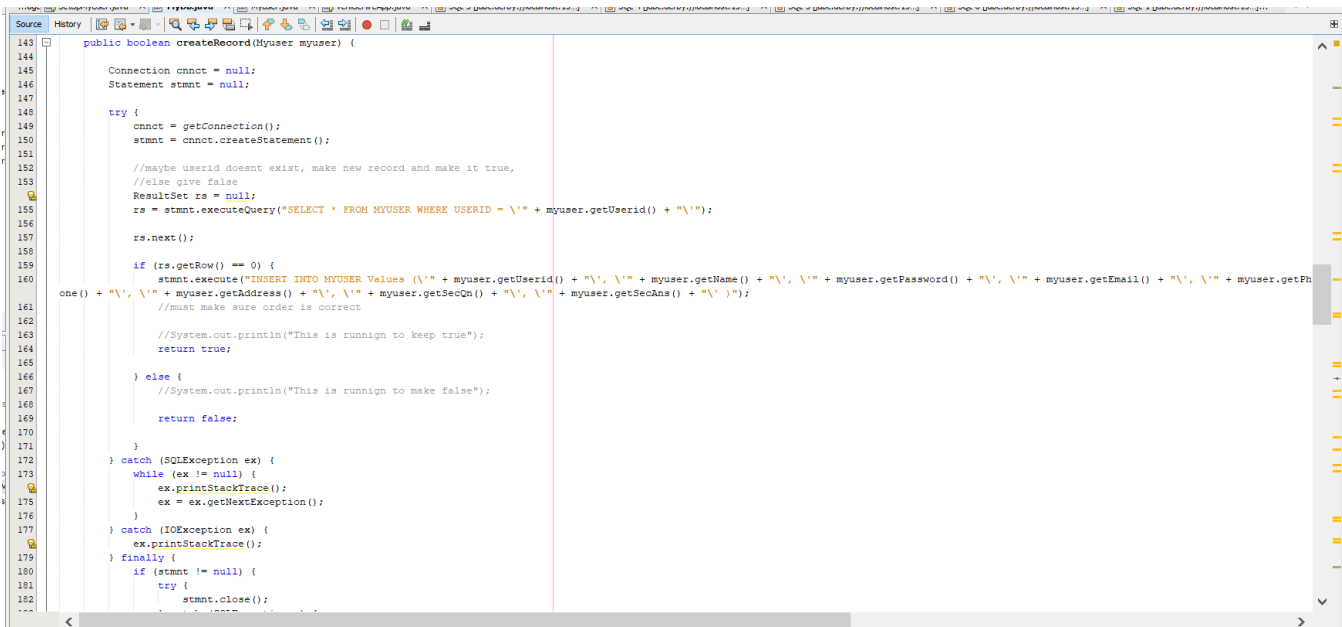
Tutor name: Wei Lai

Task 2.1P correction, COS30041

After step 1 was done:



The picture for codes for step2:



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Task 2.1P correction, COS30041

```
...src\SetupMySQL.java x MyDB.java x Myuser.java x VehicleApp.java x SQL 3 [jdbc:derby://localhost:15... x SQL 4 [jdbc:derby://localhost:15... x SQL 5 [jdbc:derby://localhost:15... x SQL 6 [jdbc:derby://localhost:15... x SQL 1 [jdbc:derby://localhost:15...
Source History
199 public Myuser getRecord(String userId) {
200
201     Connection cnct = null;
202     Statement stmt = null;
203     try {
204         cnct = getConnection();
205         stmt = cnct.createStatement();
206
207         //look for that userID, if found then return the record, else return null
208         ResultSet rs = null;
209         rs = stmt.executeQuery("SELECT * FROM MYUSER WHERE USERID = '\" + userId + '\""); //must use this technique, or else it doesnt understand its a string and instead does integer and char type
210         mismatch error!
211         Myuser myuser2 = null;
212         if (rs.next()) {
213             myuser2 = new Myuser(rs.getString("userId"), rs.getString("Name"), rs.getString("Phone"), rs.getString("Password"), rs.getString("Address"), rs.getString("Email"), rs.getString("SecOn"),
214             rs.getString("SecAns"));
215         } else {
216             myuser2 = null;
217         }
218
219         return myuser2; //this doesnt show any visible output, but the instruction said to return the myuser object, so kept it here.
220         //and put the system out parts in menu part
221
222     } catch (SQLException ex) {
223         while (ex != null) {
224             ex.printStackTrace();
225             ex = ex.getNextException();
226         }
227     } catch (IOException ex) {
228         ex.printStackTrace();
229     } finally {
230         if (stmt != null) {
231             try {
232                 stmt.close();
233             } catch (SQLException e) {
234             }
235         }
236         if (cnct != null) {
237             try {
238
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246
247 public boolean updateRecord(Myuser myuser) {
248
249     Connection cnct = null;
250     Statement stmt = null;
251     try {
252         cnct = getConnection();
253         stmt = cnct.createStatement();
254
255         //look for that userID, if found then update the record and say true, else say false
256         int rs = 0;
257
258         //basically, it will return number of records updated and as long as its not zero, update has taken place
259         rs = stmt.executeUpdate("UPDATE MYUSER SET NAME= '\" + myuser.getName() + \"', PASSWORD= '\" + myuser.getPassword() + \"', Email= '\" + myuser.getEmail() + \"', Phone= '\" + myuser.ge
260         tPhone() + \"', Address= '\" + myuser.getAddress() + \"', SECOn= '\" + myuser.getSecOn() + \"', SECAns= '\" + myuser.getSecAns() + \"' WHERE USERID= '\" + myuser.getUserId() + '\""); //must us
261         e this technique, or else it doesnt understand its a string and instead does integer and char type mismatch error!
262
263         if (rs != 0) {
264             //System.out.println("This will give true");
265             return true;
266         } else {
267             //System.out.println("This will give false");
268             return false;
269         }
270
271     } catch (SQLException ex) {
272         while (ex != null) {
273             ex.printStackTrace();
274             ex = ex.getNextException();
275         }
276     } catch (IOException ex) {
277         ex.printStackTrace();
278     } finally {
279         if (stmt != null) {
280             try {
281                 stmt.close();
282             } catch (SQLException e) {
283             }
284         }
285         if (cnct != null) {
286             try {
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```

Name: S M Ragib Rezwan

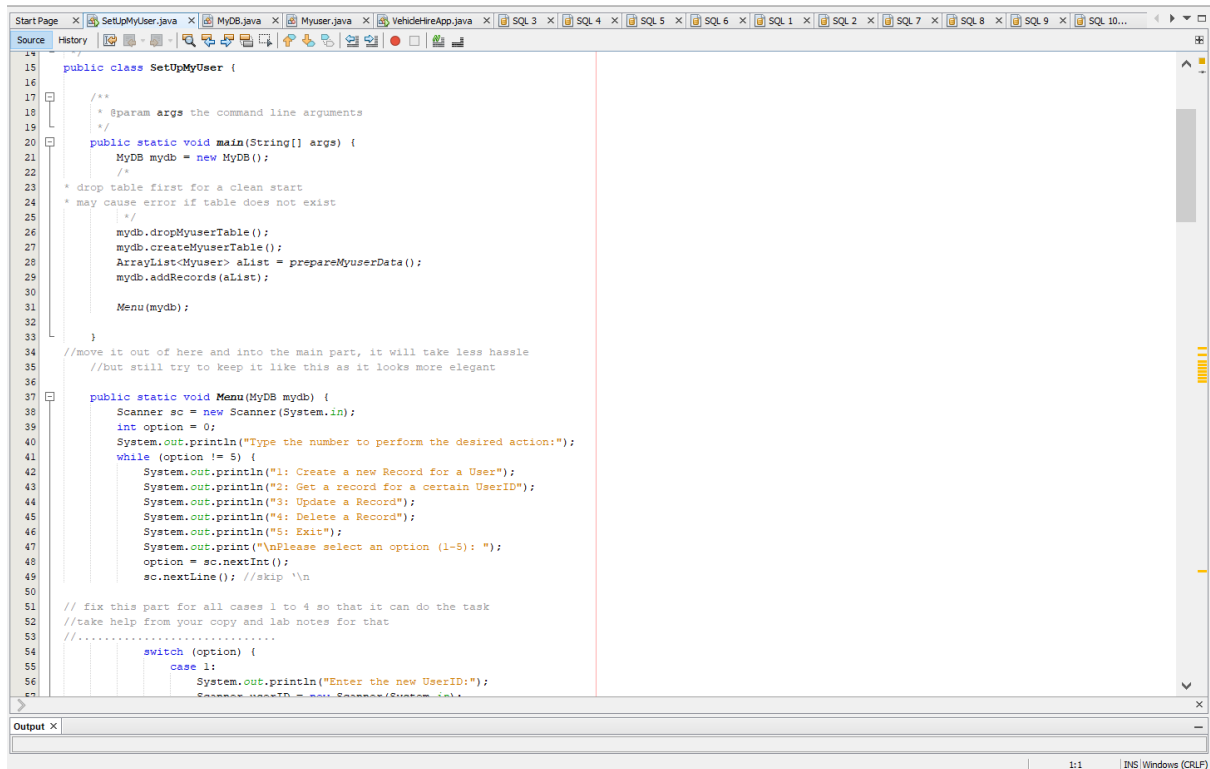
ID: 103172423

Tutor name: Wei Lai

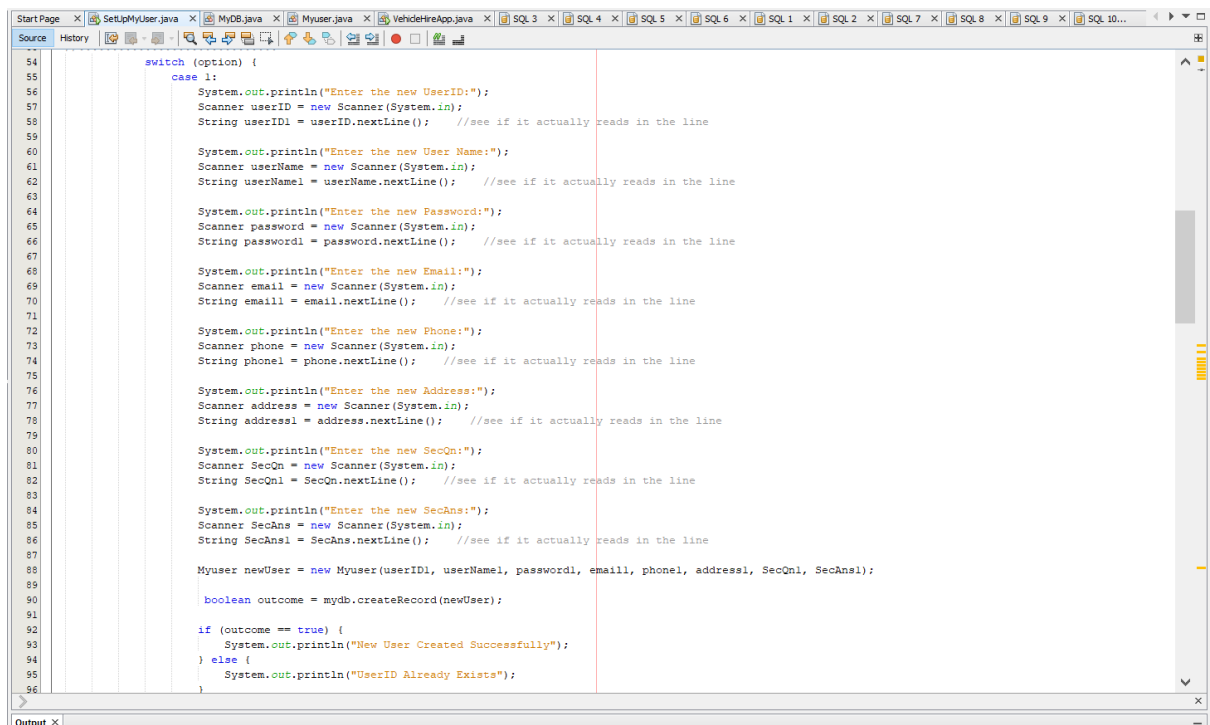
Task 2.1P correction, COS30041

Step 3 pictures:

Code pictures: (part of the correction, 5 pictures to fit in all codes)



```
15 public class SetUpMyUser {
16
17     /**
18      * @param args the command line arguments
19      */
20     public static void main(String[] args) {
21         MyDB mydb = new MyDB();
22         /*
23          * drop table first for a clean start
24          * may cause error if table does not exist
25          */
26         mydb.dropMyuserTable();
27         mydb.createMyuserTable();
28         ArrayList<Myuser> aList = prepareMyuserData();
29         mydb.addRecords(aList);
30
31         Menu(mydb);
32     }
33
34     //move it out of here and into the main part, it will take less hassle
35     //but still try to keep it like this as it looks more elegant
36
37     public static void Menu(MyDB mydb) {
38         Scanner sc = new Scanner(System.in);
39         int option = 0;
40         System.out.println("Type the number to perform the desired action:");
41         while (option != 5) {
42             System.out.println("1: Create a new Record for a User");
43             System.out.println("2: Get a record for a certain UserID");
44             System.out.println("3: Update a Record");
45             System.out.println("4: Delete a Record");
46             System.out.println("5: Exit");
47             System.out.print("\nPlease select an option (1-5): ");
48             option = sc.nextInt();
49             sc.nextLine(); //skip '\n'
50
51             // fix this part for all cases 1 to 4 so that it can do the task
52             //take help from your copy and lab notes for that
53             //.....
54             switch (option) {
55                 case 1:
56                     System.out.println("Enter the new UserID:");
57                     Scanner userID = new Scanner(System.in);
58                     String userID1 = userID.nextLine(); //see if it actually reads in the line
59
60                     System.out.println("Enter the new User Name:");
61                     Scanner userName = new Scanner(System.in);
62                     String userName1 = userName.nextLine(); //see if it actually reads in the line
63
64                     System.out.println("Enter the new Password:");
65                     Scanner password = new Scanner(System.in);
66                     String password1 = password.nextLine(); //see if it actually reads in the line
67
68                     System.out.println("Enter the new Email:");
69                     Scanner email = new Scanner(System.in);
70                     String email1 = email.nextLine(); //see if it actually reads in the line
71
72                     System.out.println("Enter the new Phone:");
73                     Scanner phone = new Scanner(System.in);
74                     String phone1 = phone.nextLine(); //see if it actually reads in the line
75
76                     System.out.println("Enter the new Address:");
77                     Scanner address = new Scanner(System.in);
78                     String address1 = address.nextLine(); //see if it actually reads in the line
79
80                     System.out.println("Enter the new SecQn:");
81                     Scanner SecQn = new Scanner(System.in);
82                     String SecQn1 = SecQn.nextLine(); //see if it actually reads in the line
83
84                     System.out.println("Enter the new SecAns:");
85                     Scanner SecAns = new Scanner(System.in);
86                     String SecAns1 = SecAns.nextLine(); //see if it actually reads in the line
87
88                     Myuser newUser = new Myuser(userID1, userName1, password1, email1, phone1, address1, SecQn1, SecAns1);
89
90                     boolean outcome = mydb.createRecord(newUser);
91
92                     if (outcome == true) {
93                         System.out.println("New User Created Successfully");
94                     } else {
95                         System.out.println("UserID Already Exists");
96                     }
97             }
98         }
99     }
100 }
```



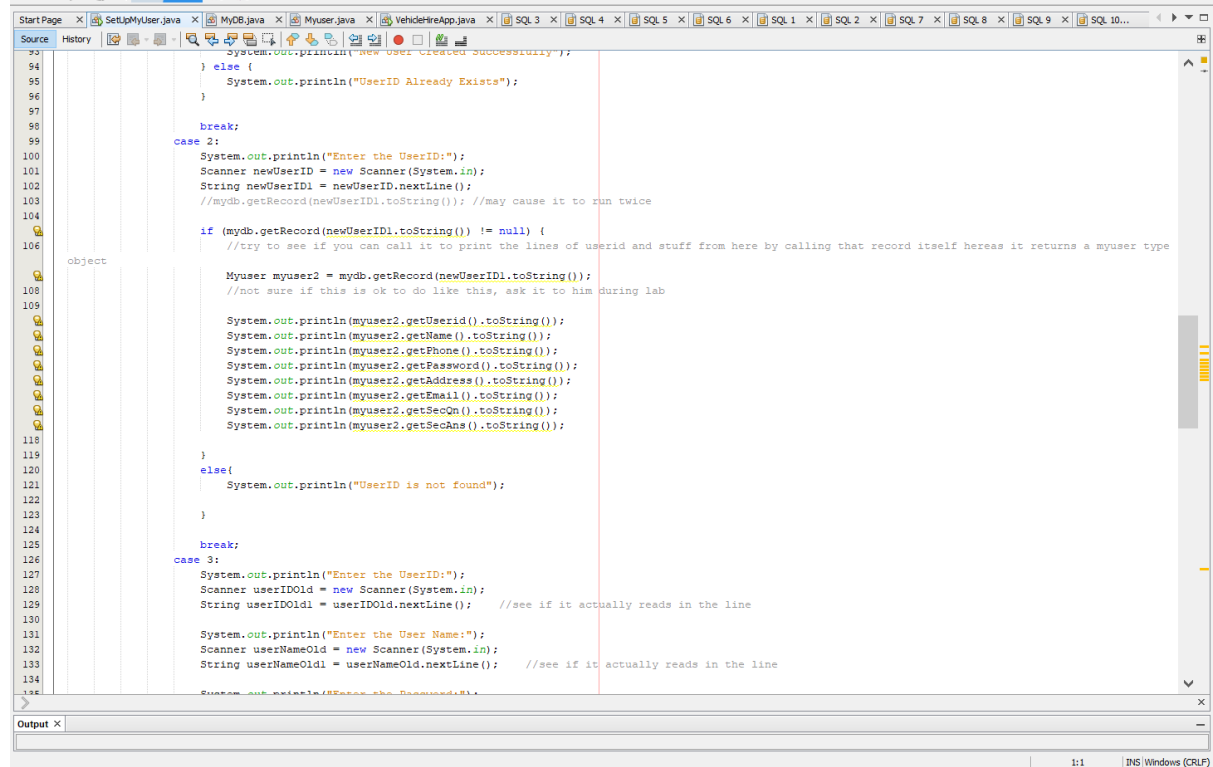
```
54
55     switch (option) {
56         case 1:
57             System.out.println("Enter the new UserID:");
58             Scanner userID = new Scanner(System.in);
59             String userID1 = userID.nextLine(); //see if it actually reads in the line
60
61             System.out.println("Enter the new User Name:");
62             Scanner userName = new Scanner(System.in);
63             String userName1 = userName.nextLine(); //see if it actually reads in the line
64
65             System.out.println("Enter the new Password:");
66             Scanner password = new Scanner(System.in);
67             String password1 = password.nextLine(); //see if it actually reads in the line
68
69             System.out.println("Enter the new Email:");
70             Scanner email = new Scanner(System.in);
71             String email1 = email.nextLine(); //see if it actually reads in the line
72
73             System.out.println("Enter the new Phone:");
74             Scanner phone = new Scanner(System.in);
75             String phone1 = phone.nextLine(); //see if it actually reads in the line
76
77             System.out.println("Enter the new Address:");
78             Scanner address = new Scanner(System.in);
79             String address1 = address.nextLine(); //see if it actually reads in the line
80
81             System.out.println("Enter the new SecQn:");
82             Scanner SecQn = new Scanner(System.in);
83             String SecQn1 = SecQn.nextLine(); //see if it actually reads in the line
84
85             System.out.println("Enter the new SecAns:");
86             Scanner SecAns = new Scanner(System.in);
87             String SecAns1 = SecAns.nextLine(); //see if it actually reads in the line
88
89             Myuser newUser = new Myuser(userID1, userName1, password1, email1, phone1, address1, SecQn1, SecAns1);
90
91             boolean outcome = mydb.createRecord(newUser);
92
93             if (outcome == true) {
94                 System.out.println("New User Created Successfully");
95             } else {
96                 System.out.println("UserID Already Exists");
97             }
98         }
99     }
100 }
```

Name: S M Ragib Rezwan

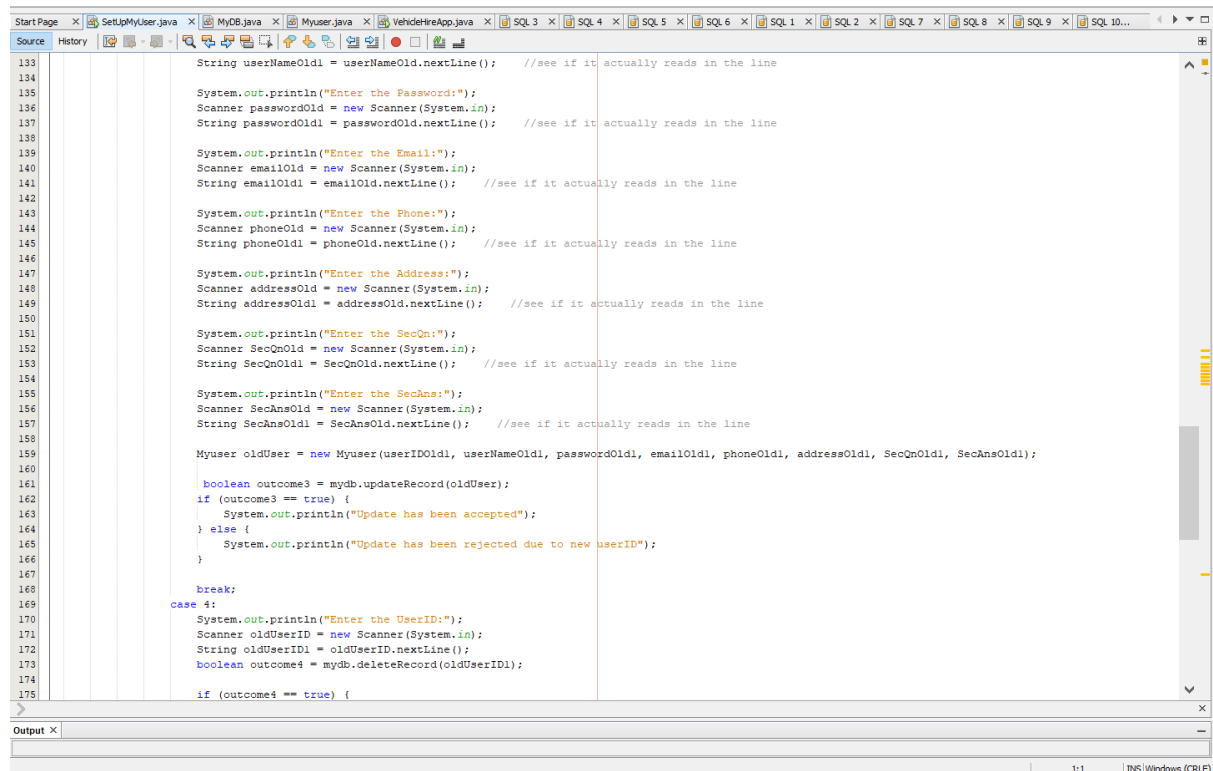
ID: 103172423

Tutor name: Wei Lai

Task 2.1P correction, COS30041



```
94         } else {
95             System.out.println("UserID Already Exists");
96         }
97     }
98     break;
99 case 2:
100     System.out.println("Enter the UserID:");
101     Scanner newUserID = new Scanner(System.in);
102     String newUserID1 = newUserID.nextLine();
103     //mydb.getRecord(newUserID1.toString()); //may cause it to run twice
104
105     if (mydb.getRecord(newUserID1.toString()) != null) {
106         //try to see if you can call it to print the lines of userid and stuff from here by calling that record itself hereas it returns a myuser type
107         Myuser myuser2 = mydb.getRecord(newUserID1.toString());
108         //not sure if this is ok to do like this, ask it to him during lab
109
110         System.out.println(myuser2.getUserid().toString());
111         System.out.println(myuser2.getName().toString());
112         System.out.println(myuser2.getPhone().toString());
113         System.out.println(myuser2.getPassword().toString());
114         System.out.println(myuser2.getAddress().toString());
115         System.out.println(myuser2.getEmail().toString());
116         System.out.println(myuser2.getSecQn().toString());
117         System.out.println(myuser2.getSecAns().toString());
118     }
119     else{
120         System.out.println("UserID is not found");
121     }
122 }
123 break;
124 case 3:
125     System.out.println("Enter the UserID:");
126     Scanner userIDOld = new Scanner(System.in);
127     String userIDOld1 = userIDOld.nextLine(); //see if it actually reads in the line
128
129     System.out.println("Enter the User Name:");
130     Scanner userNameOld = new Scanner(System.in);
131     String userNameOld1 = userNameOld.nextLine(); //see if it actually reads in the line
132
133     System.out.println("Enter the Password:");
134     Scanner passwordOld = new Scanner(System.in);
135     String passwordOld1 = passwordOld.nextLine(); //see if it actually reads in the line
136
137     System.out.println("Enter the Email:");
138     Scanner emailOld = new Scanner(System.in);
139     String emailOld1 = emailOld.nextLine(); //see if it actually reads in the line
140
141     System.out.println("Enter the Phone:");
142     Scanner phoneOld = new Scanner(System.in);
143     String phoneOld1 = phoneOld.nextLine(); //see if it actually reads in the line
144
145     System.out.println("Enter the Address:");
146     Scanner addressOld = new Scanner(System.in);
147     String addressOld1 = addressOld.nextLine(); //see if it actually reads in the line
148
149     System.out.println("Enter the SecQn:");
150     Scanner SecQnOld = new Scanner(System.in);
151     String SecQnOld1 = SecQnOld.nextLine(); //see if it actually reads in the line
152
153     System.out.println("Enter the SecAns:");
154     Scanner SecAnsOld = new Scanner(System.in);
155     String SecAnsOld1 = SecAnsOld.nextLine(); //see if it actually reads in the line
156
157     Myuser oldUser = new Myuser(userIDOld1, userNameOld1, passwordOld1, emailOld1, phoneOld1, addressOld1, SecQnOld1, SecAnsOld1);
158
159     boolean outcome3 = mydb.updateRecord(oldUser);
160     if (outcome3 == true) {
161         System.out.println("Update has been accepted");
162     } else {
163         System.out.println("Update has been rejected due to new userID");
164     }
165 }
166 break;
167 case 4:
168     System.out.println("Enter the UserID:");
169     Scanner oldUserID = new Scanner(System.in);
170     String oldUserID1 = oldUserID.nextLine();
171     boolean outcome4 = mydb.deleteRecord(oldUserID1);
172     if (outcome4 == true) {
173         System.out.println("Record deleted successfully");
174     }
175 }
```



```
173         System.out.println("Record deleted successfully");
174     }
175 }
176 break;
177 case 4:
178     System.out.println("Enter the UserID:");
179     Scanner oldUserID = new Scanner(System.in);
180     String oldUserID1 = oldUserID.nextLine();
181     boolean outcome4 = mydb.deleteRecord(oldUserID1);
182     if (outcome4 == true) {
183         System.out.println("Record deleted successfully");
184     }
185 }
```

Name: S M Ragib Rezwan

ID: 103172423

Tutor name: Wei Lai

Task 2.1P correction, COS30041

```
Source History
MyUser.java
MyDB.java
MyUser.java
VehicleHireApp.java
SQL 3
SQL 4
SQL 5
SQL 6
SQL 1
SQL 2
SQL 7
SQL 8
SQL 9
SQL 10...

159 Myuser oldUser = new Myuser(userID1, userNameOld1, passwordOld1, emailOld1, phoneOld1, addressOld1, SecQnOld1, SecAnsOld1);
160
161 boolean outcome3 = mydb.updateRecord(oldUser);
162 if (outcome3 == true) {
163     System.out.println("Update has been accepted");
164 } else {
165     System.out.println("Update has been rejected due to new userID");
166 }
167
168 break;
169
170 case 4:
171     System.out.println("Enter the UserID:");
172     Scanner oldUserID = new Scanner(System.in);
173     String oldUserID1 = oldUserID.nextLine();
174     boolean outcome4 = mydb.deleteRecord(oldUserID1);
175
176 if (outcome4 == true) {
177     System.out.println("Deleted Successfully");
178 } else {
179     System.out.println("Failed to delete");
180 }
181
182 break;
183
184 } //end while
185
186
187 public static ArrayList<Myuser> prepareMyuserData() {
188     ArrayList<Myuser> myList = new ArrayList<Myuser>();
189     Myuser myuser1 = new Myuser("000001", "Peter Smith", "123456",
190     "psmith@swin.edu.au", "9876543210", "Swinburne ENS10f",
191     "What is my name?", "Peter");
192     Myuser myuser2 = new Myuser("000002", "James T. Kirk", "234567",
193     "jkirk@swin.edu.au", "8765432109", "Swinburne ENS11a",
194     "What is my name?", "James");
195     Myuser myuser3 = new Myuser("000003", "Sheldon Cooper", "345678",
196     "scooper@swin.edu.au", "7654321098", "Swinburne ENS12a",
197     "What is my last name?", "... Cooper");
198     Myuser myuser4 = new Myuser("000004", "Clark Kent", "456789",
199     "ckent@swin.edu.au", "6543210987", "Swinburne ENS13a",
200     "What is my last name?", "... Kent");
201     Myuser myuser5 = new Myuser("000005", "Harry Potter", "567890",
202     "hpotter@swin.edu.au", "6543210987", "Swinburne ENS14a",
203     "What is my last name?", "... Potter");
204     myList.add(myuser1);
205     myList.add(myuser2);
206     myList.add(myuser3);
207     myList.add(myuser4);
208     myList.add(myuser5);
209     return myList;
210 }
```

Outcome for each test:

New record entry both cases:

SQL 14 [jdbc:derby://localhost:15...]

Connection: jdbc:derby://localhost:1527/sample-appserv-samples (APP on APP)

SELECT * FROM APP.MYUSER FETCH FIRST 100 ROWS ONLY;

Max. rows: 100 | Fetched Rows: 6

#	USERID	NAME	PASSWORD	EMAIL	PHONE	ADDRESS	SECQN	SECANS
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swinburne ENS10f	What is my name?	Peter
2	000002	James T. Kirk	234567	jkirk@swin.edu.au	8765432109	Swinburne ENS11a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swinburne ENS12a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swinburne ENS13a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	6543210987	Swinburne ENS14a	What is my last name?	... Potter
6	1010	test	test	test	test	test	test	test

Output

ED-JDBC (run) #20 × ED-JDBC (run) #21 × ED-JDBC (run) #22 × SQL 14 execution × SQL 15 execution × SQL 16 execution × SQL 17 execution × ED-JDBC (run) #23 × ED-JDBC (run) #24 × ED-JDBC (run) #25 × SQL 18 execution × SQL 19 execution ×

Please select an option (1-5): 1
Enter the new UserID: 1010
Enter the new User Name: test
Enter the new Password: test
Enter the new Email: test
Enter the new Phone: test
Enter the new Address: test
Enter the new SecQn: test
Enter the new SecAns: test
New User Created Successfully
1: Create a new Record for a User
2: Get a record for a certain UserID
3: Update a Record
4: Delete a Record
5: Exit
Please select an option (1-5):

ED-JDBC (run) #25 | running... | (24 more...) | 1:1 | [NS]

SELECT * FROM APP.MYUSER ...

Max. rows: 100 | Fetched Rows: 5

#	USERID	NAME	PASSWORD	EMAIL	PHONE	ADDRESS	SECQN	SECANS
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swinburne ENS10f	What is my name?	Peter
2	000002	James T. Kirk	234567	jkirk@swin.edu.au	8765432109	Swinburne ENS11a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swinburne ENS12a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swinburne ENS13a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	6543210987	Swinburne ENS14a	What is my last name?	... Potter

Output

SQL 13 execution × ED-JDBC (run) #20 × ED-JDBC (run) #21 × ED-JDBC (run) #22 × SQL 14 execution × SQL 15 execution × SQL 16 execution × SQL 17 execution × ED-JDBC (run) #23 × ED-JDBC (run) #24 × ED-JDBC (run) #25 × SQL 18 execution ×

Please select an option (1-5): 1
Enter the new UserID: 000001
Enter the new User Name: s
Enter the new Password: s
Enter the new Email: s
Enter the new Phone: s
Enter the new Address: s
Enter the new SecQn: s
Enter the new SecAns: s
UserID Already Exists
1: Create a new Record for a User
2: Get a record for a certain UserID
3: Update a Record
4: Delete a Record
5: Exit
Please select an option (1-5):

ED-JDBC (run) #25 | running... | (24 more...) | 1:1 | [NS]

Task 2.1P correction, COS30041

SQL 16 [jdbc:derby://localhost:15...]

SQL 17 [jdbc:derby://localhost:15...]

SQL 18 [jdbc:derby://localhost:15...]

SQL 19 [jdbc:derby://localhost:15...]

SQL 20 [jdbc:derby://localhost:15...]

SQL 21 [jdbc:derby://localhost:15...]

Connection: [jdbc:derby://localhost:1527/sun-apperv-samples [APP on APP]]

SELECT * FROM APP.MYUSER FETCH FIRST 100 ROWS ONLY;

1

2

SELECT * FROM APP.MYUSER ... X

Max. rows: 100

Fetched Rows: 6

Matching Rows:

#	USERID	NAME	PASSWORD	EMAIL	PHONE	ADDRESS	SECQ1	SECANS
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swirburne EHS10f	What is my name?	Peter
2	000002	James T. Kirk	234567	jkirk@swin.edu.au	8765432109	Swirburne EHS11a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swirburne EHS12a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swirburne EHS13a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	6543210987	Swirburne EHS14a	What is my last name?	... Potter
6	1010	test	test	test	test	test	What is my last name?	test

Output X

1 X ED-JDBC (run) #22 X SQL 14 execution X SQL 15 execution X SQL 16 execution X SQL 17 execution X ED-JDBC (run) #23 X ED-JDBC (run) #24 X ED-JDBC (run) #25 X SQL 18 execution X SQL 19 execution X SQL 20 execution X SQL 21 execution X

Please select an option (1-5): 2

Enter the UserID:

1010

1010

test

test

test

test

test

test

test

1: Create a new Record for a User

2: Get a record for a certain UserID

3: Update a Record

4: Delete a Record

5: Exit

Please select an option (1-5): 2

Enter the UserID:

999

UserID is not found

1: Create a new Record for a User

2: Get a record for a certain UserID

3: Update a Record

4: Delete a Record

5: Exit

Please select an option (1-5):

ED-JDBC (run) #25

running...

24 more...

1:1

JWS Unix (LP)

...SQL 18 [jdbcderby://localhost:15...] x SQL 19 [jdbcderby://localhost:15...] x SQL 20 [jdbcderby://localhost:15...] x SQL 21 [jdbcderby://localhost:15...] x SQL 22 [jdbcderby://localhost:15...] x SQL 23 [jdbcderby://localhost:15...]

Connection: jdbcderby://localhost:1527/sun-appserv-samples [APP on APP]

```
SELECT * FROM APP.MYUSER FETCH FIRST 100 ROWS ONLY;
```

SELECT * FROM APP.MYUSER ... X

Max. rows: 100 | Fetched Rows: 5 | Matching Rows:

#	USERID	NAME	PASSWORD	EMAIL	PHONE	ADDRESS	SECQCN	SECANS
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swinburne EN510f	What is my name?	Peter
2	000002	James T. Kirk	234567	jtk@swin.edu.au	8765432109	Swinburne EN511a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swinburne EN512a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swinburne EN513a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	6543210987	Swinburne EN514a	What is my last name?	... Potter

Output X

SQL 15 execution x SQL 16 execution x SQL 17 execution x ED-JDBC (run) #23 x ED-JDBC (run) #24 x ED-JDBC (run) #25 x SQL 18 execution x SQL 19 execution x SQL 20 execution x SQL 21 execution x SQL 22 execution x SQL 23 execution x

```
Update has been accepted
1: Create a new Record for a User
2: Get a record for a certain UserID
3: Update a Record
4: Delete a Record
5: Exit

Please select an option (1-5): 4
Enter the UserID:
00100100100
Failed to delete
1: Create a new Record for a User
2: Get a record for a certain UserID
3: Update a Record
4: Delete a Record
5: Exit

Please select an option (1-5): 4
Enter the UserID:
1010
Deleted Successfully
1: Create a new Record for a User
2: Get a record for a certain UserID
3: Update a Record
4: Delete a Record
5: Exit

Please select an option (1-5):
```

ED-JDBC (run) #25 | running... | 24 more... | 1:1 | JMS

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Tutor name: Wei Lai

Task 2.1P correction, COS30041

Update record both outcomes:

SELECT * FROM APP.MYUSER ... X

#	USERID	NAME	PASSWORD	EMAIL	PHONE	ADDRESS	SECQN	SECANS
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swinburne EN510f	What is my name?	Peter
2	000002	James T. Kirk	234567	jkirk@swin.edu.au	8765432109	Swinburne EN511a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swinburne EN512a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swinburne EN513a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	543210987	Swinburne EN514a	What is my last name?	... Potter
6	1010	test	test	test	test	test	test	test

Output X

4: Delete a Record
5: Exit

Please select an option (1-5): 3
Enter the UserID:
00100000
Enter the User Name:
s
Enter the Password:
s
Enter the Email:
s
Enter the Phone:
s
Enter the Address:
s
Enter the SecQn:
s
Enter the SecAns:
s
Update has been rejected due to new userID
1: Create a new Record for a User
2: Get a record for a certain UserID
3: Update a Record
4: Delete a Record
5: Exit
Please select an option (1-5):

ED-JDBC (run) #22 X SQL 14 execution X SQL 15 execution X SQL 16 execution X SQL 17 execution X ED-JDBC (run) #23 X ED-JDBC (run) #24 X ED-JDBC (run) #25 X SQL 18 execution X SQL 19 execution X SQL 20 execution X SQL 21 execution X

... X SQL 17 [jdbc:derby://localhost:15...] X SQL 18 [jdbc:derby://localhost:15...] X SQL 19 [jdbc:derby://localhost:15...] X SQL 20 [jdbc:derby://localhost:15...] X SQL 21 [jdbc:derby://localhost:15...] X

Connection: jdbc:derby://localhost:1527/un-appserv-samples [APP on APP]

1 SELECT * FROM APP.MYUSER FETCH FIRST 100 ROWS ONLY;
2

SELECT * FROM APP.MYUSER ... X

#	USERID	NAME	PASSWORD	EMAIL	PHONE	ADDRESS	SECQN	SECANS
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swinburne EN510f	What is my name?	Peter
2	000002	James T. Kirk	234567	jkirk@swin.edu.au	8765432109	Swinburne EN511a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swinburne EN512a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swinburne EN513a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	543210987	Swinburne EN514a	What is my last name?	... Potter
6	1010	s	s	s	s	s	s	s

Output X

4: Delete a Record
5: Exit

Please select an option (1-5): 3
Enter the UserID:
1010
Enter the User Name:
s
Enter the Password:
s
Enter the Email:
s
Enter the Phone:
s
Enter the Address:
s
Enter the SecQn:
s
Enter the SecAns:
s
Update has been accepted
1: Create a new Record for a User
2: Get a record for a certain UserID
3: Update a Record
4: Delete a Record
5: Exit
Please select an option (1-5):

ED-JDBC (run) #22 X SQL 14 execution X SQL 15 execution X SQL 16 execution X SQL 17 execution X ED-JDBC (run) #23 X ED-JDBC (run) #24 X ED-JDBC (run) #25 X SQL 18 execution X SQL 19 execution X SQL 20 execution X SQL 21 execution X SQL 22 execution X

ED-JDBC (run) #25 running... (24 more...) 1:1 [NS]

Step -4:

4.1: DTO means data transfer object and DAO means data access object. Myuser class is a DTO as it holds the pattern to create individual user, instead of making them separately by calling userid, name, etc.

4.1.1: DAO basically does some certain, specific data operations without exposing details of the database itself. And since myuser is not a DAO, MyDB must be the DAO.

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4.2: No. That's because myuser.setname is a method of the myuser class which is not a dao. Thus it can't access the database when called in the program.

4.3: No. That's because even though myDB is a DAO, it calling method of myuser class which is not a dao. Thus it can't change value in the database.