

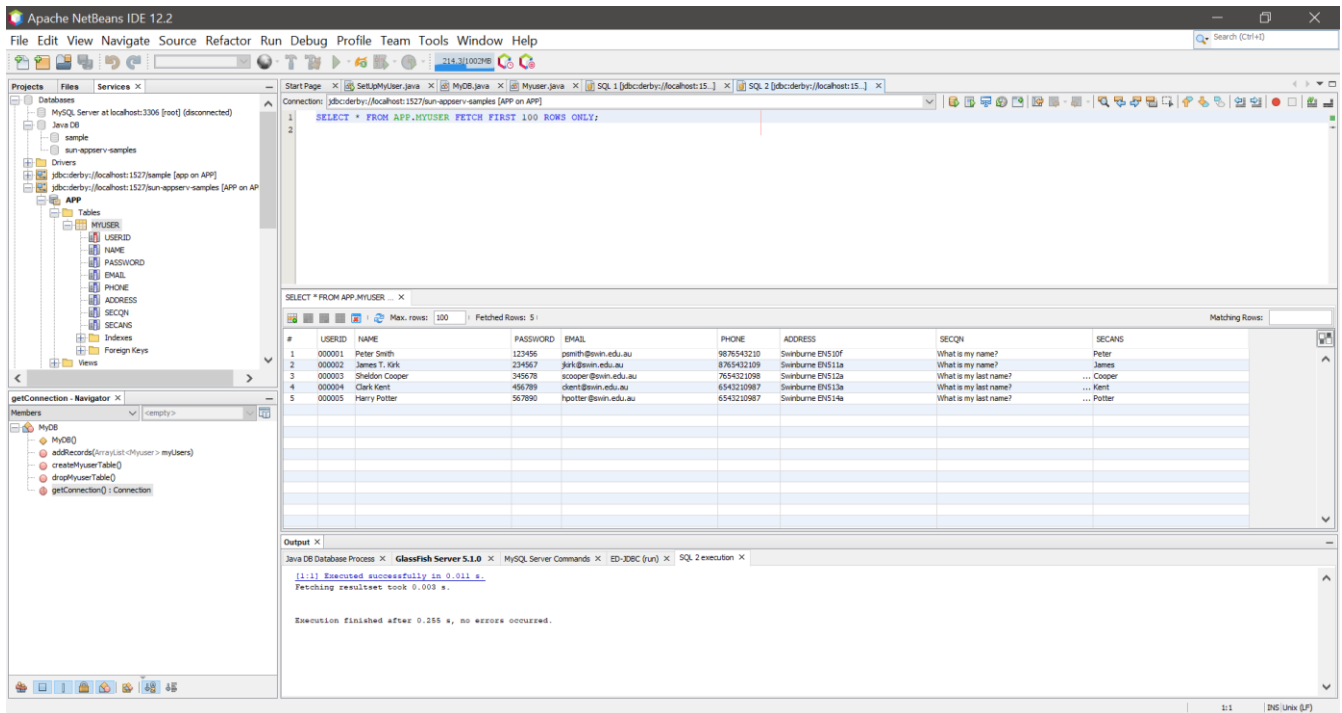
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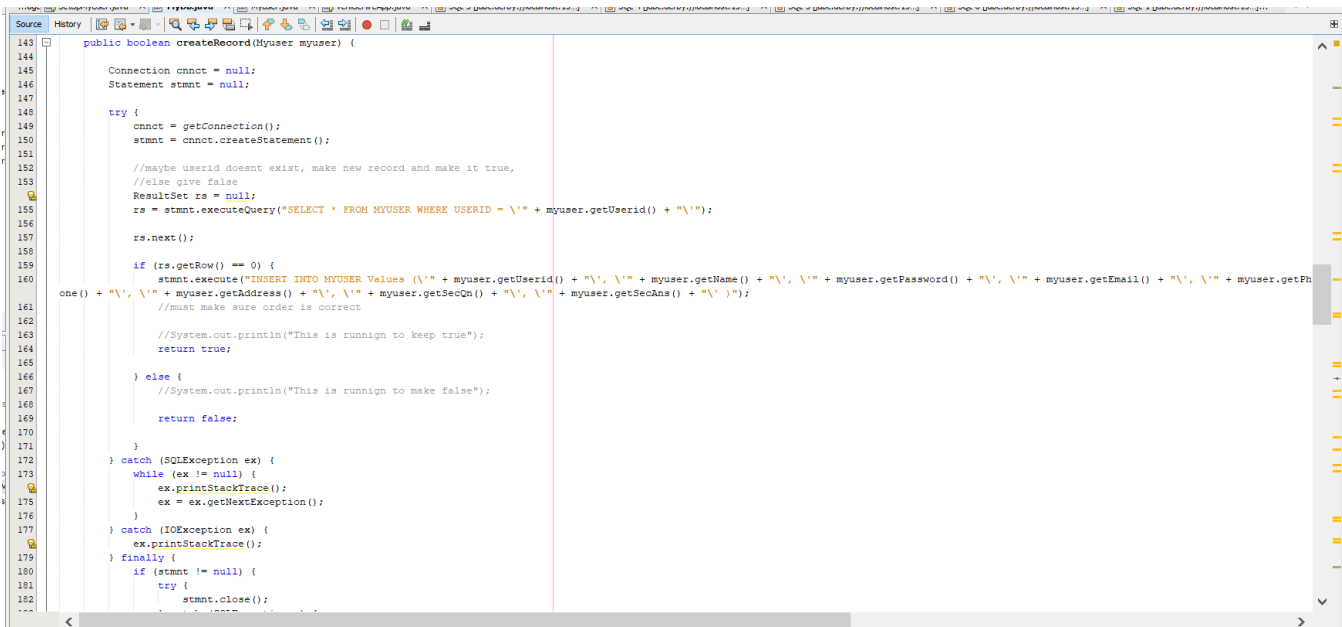
Tutor name: Wei Lai

Task 2.1P, COS30041

After step 1 was done:



The picture for codes for step2:



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Task 2.1P, 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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Task 2.1P, COS30041

Step 3 pictures:

New record entry both cases:

The screenshot displays a database application interface. At the top, a SQL query is entered: `SELECT * FROM APP.MYUSER FETCH FIRST 100 ROWS ONLY;`. Below the query, a table of users is shown with columns: #, USERID, NAME, PASSWORD, EMAIL, PHONE, ADDRESS, SECQN, and SECANS. The table contains 6 rows of data.

#	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	543210987	Swinburne ENS14a	What is my last name?	... Potter
6	1010	test	test	test	test	test	test	test

Below the table, an output window shows a command-line interface for user management. It prompts the user to select an option (1-6) and then provides a menu of options: 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. The user has selected option 1, and the interface prompts for the new UserID, User Name, Password, Email, Phone, Address, SecQn, and SecAns. The user has entered the following values: UserID: 1010, User Name: test, Password: test, Email: test, Phone: test, Address: test, SecQn: test, SecAns: test. The interface then displays the message: New User Created Successfully.

The second screenshot shows the same database application interface, but with the table of users updated to show 5 rows of data. The output window shows the user has selected option 1, and the interface prompts for the new UserID, User Name, Password, Email, Phone, Address, SecQn, and SecAns. The user has entered the following values: UserID: 000001, User Name: s, Password: s, Email: s, Phone: s, Address: s, SecQn: s, SecAns: s. The interface then displays the message: UserID Already Exists.

Task 2.1P, COS30041

Get record both outcomes:

... 15 ] SQL 16 [jdbc:derby://localhost:15... ] 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/sun-appserv-samples [APP on APP]

```

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

```

SELECT \* FROM APP.MYUSER ... X

Max. rows: 100
Fetched Rows: 6

Matching Rows:

#	USERID	NAME	PASSWORD	EMAIL	PHONE	ADDRESS	SECQN	SECANS
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swinburne EH510f	What is my name?	Peter
2	000002	James T. Kirk	234567	jkirk@swin.edu.au	8765432109	Swinburne EH511a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swinburne EH512a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swinburne EH513a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	6543210987	Swinburne EH514a	What is my last name?	... Potter
6	1010	test	test	test	test	test	test	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
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

[MS] [Show All]

Delete record both outcomes:

... 5 | 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 | SQL 22 [jdbc:derby://localhost:15...] X | SQL 23 [jdbc:derby://localhost:15...] X

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

```
1 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	SECQN	SECAN
1	000001	Peter Smith	123456	psmith@swin.edu.au	9876543210	Swinburne EH510f	What is my name?	Peter
2	000002	James T. Kirk	234567	jtkirk@swin.edu.au	8765432109	Swinburne EH511a	What is my name?	James
3	000003	Sheldon Cooper	345678	scooper@swin.edu.au	7654321098	Swinburne EH512a	What is my last name?	... Cooper
4	000004	Clark Kent	456789	ckent@swin.edu.au	6543210987	Swinburne EH513a	What is my last name?	... Kent
5	000005	Harry Potter	567890	hpotter@swin.edu.au	6543210987	Swinburne EH514a	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... | 82 (24 more...) | 1:1 | THIS

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ID: 103172423

Tutor name: Wei Lai

Task 2.1P, COS30041

Update record both outcomes:

The application window displays a database management interface. The top section shows a table of users with columns: USERID, NAME, PASSWORD, EMAIL, PHONE, ADDRESS, SECQN, and SECANS. The table contains 6 rows of data. Below the table is a menu with options: 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. The bottom section shows the same interface after updating a record, with the table reflecting the changes.

#	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

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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Task 2.1P, COS30041

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.