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Step 1 ending part:

```
20
21 public MyuserApp() {
22     mydb = new MyuserDB();
23 }
24
25 public static void main(String[] args) {
26     MyuserApp client = new MyuserApp();
27     // assuming inputs from keyboard or any GUI
28     MyuserDTO myuserDTO = new MyuserDTO("000001", "Peter Smith", "123456",
29         "psmith@swin.edu.au", "9876543210", "Swinburne EN510f",
30         "What is my name?", "Peter");
31     boolean result = client.createRecord(myuserDTO);
32     client.showCreateResult(result, myuserDTO);
33
34     // assuming inputs from keyboard or any GUI
35     MyuserDTO myuserDTO2 = new MyuserDTO("000006", "David Lee", "654321",
36         "dlee@swin.edu.au", "0123456789", "Swinburne EN510g",
37         "What is my name?", "David");
38     result = client.createRecord(myuserDTO2);
39     client.showCreateResult(result, myuserDTO2);
40
41 }
42
```

ed.jpa.MyuserApp Menu while (option != 4) switch (option)

Output x

Java DB Database Process x ED-JPA (run) x SQL 24 execution x SQL 25 execution x SQL 26 execution x

run:

[EL Info]: 2022-03-16 09:29:00.854--ServerSession(1223867739)--EclipseLink, version: Eclipse Persistence Services - 2.7.7.v20200504-69f2c2b80d

Record with primary key 000001 could not be created in the database table!

Record with primary key 000006 could not be created in the database table!

Step 2 all parts:

```
Source History
75 public MyuserDTO getRecord(String userId) {
76     Myuser myuser = findMyuser(userId);
77     if (myuser != null) {
78         return new MyuserDTO(myuser.getUserId(), myuser.getName(), myuser.getPassword(), myuser.getEmail(), myuser.getPhone(), myuser.getAddress(), myuser.getSeqn(), myuser.getSecans(
79     ));
80     } else {
81         return null;
82     }
83 }
84
85 public boolean updateRecord(MyuserDTO myuserDTO) {
86     Myuser myuser = findMyuser(myuserDTO.getUserId());
87     if (myuser != null) {
88         try {
89             em.getTransaction().begin();
90             em.merge(myDTO2DAO(myuserDTO)); // to add an object to database
91             em.getTransaction().commit();
92             return true;
93         } catch (Exception ex) {
94             throw ex;
95         }
96     } else {
97         return false;
98     }
99 }
100
101 public boolean deleteRecord(String userId) {
102     Myuser myuser = findMyuser(userId);
103     if (myuser != null) {
104         try {
105             em.getTransaction().begin();
106             em.remove(myuser);
107             em.getTransaction().commit();
108             return true;
109         } catch (Exception ex) {
110             throw ex;
111         }
112     } else {
113         return false;
114     }
115 }
116
```

ed.jpa.MyuserDB getRecord

Output x

Java DB Database Process x ED-JPA (run) x SQL 24 execution x SQL 25 execution x SQL 26 execution x

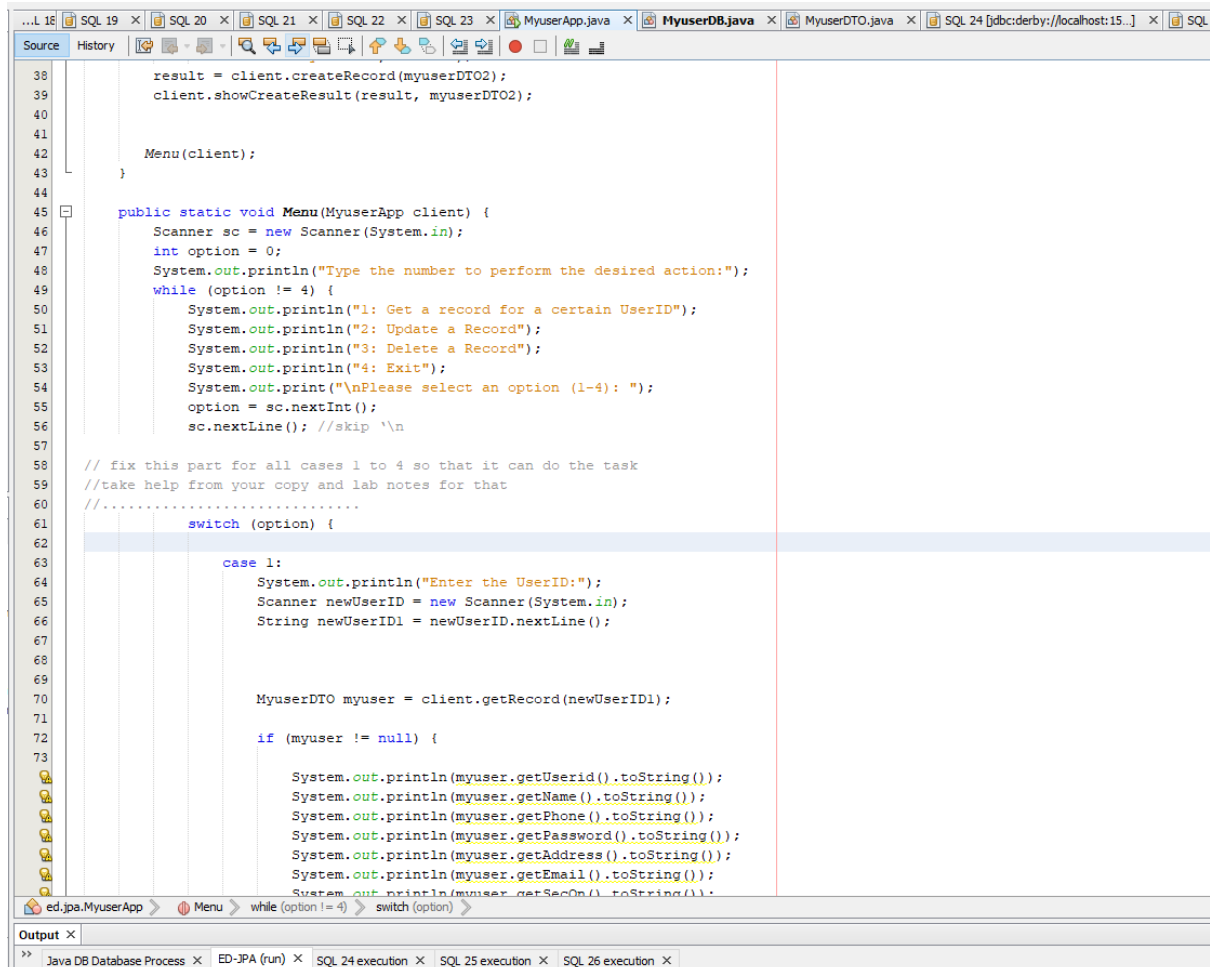
75:48 INS Windows (CRLF)

Step 3 all code parts:

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```
38         result = client.createRecord(myuserDTO2);
39         client.showCreateResult(result, myuserDTO2);
40
41
42         Menu(client);
43     }
44
45     public static void Menu(MyuserApp client) {
46         Scanner sc = new Scanner(System.in);
47         int option = 0;
48         System.out.println("Type the number to perform the desired action:");
49         while (option != 4) {
50             System.out.println("1: Get a record for a certain UserID");
51             System.out.println("2: Update a Record");
52             System.out.println("3: Delete a Record");
53             System.out.println("4: Exit");
54             System.out.print("\nPlease select an option (1-4): ");
55             option = sc.nextInt();
56             sc.nextLine(); //skip '\n'
57
58             // fix this part for all cases 1 to 4 so that it can do the task
59             //take help from your copy and lab notes for that
60             //.....
61             switch (option) {
62
63                 case 1:
64                     System.out.println("Enter the UserID:");
65                     Scanner newUserID = new Scanner(System.in);
66                     String newUserID1 = newUserID.nextLine();
67
68
69
70                     MyuserDTO myuser = client.getRecord(newUserID1);
71
72                     if (myuser != null) {
73
74                         System.out.println(myuser.getUserid().toString());
75                         System.out.println(myuser.getName().toString());
76                         System.out.println(myuser.getPhone().toString());
77                         System.out.println(myuser.getPassword().toString());
78                         System.out.println(myuser.getAddress().toString());
79                         System.out.println(myuser.getEmail().toString());
80                         System.out.println(myuser.getSecQn().toString());
81                         System.out.println(myuser.getSecAns().toString());
82                     }
83                 }
84             }
85         }
86     }
87 }
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Name: S M Ragib Rezwan

ID: 103172423

Tutor: Wei Lai

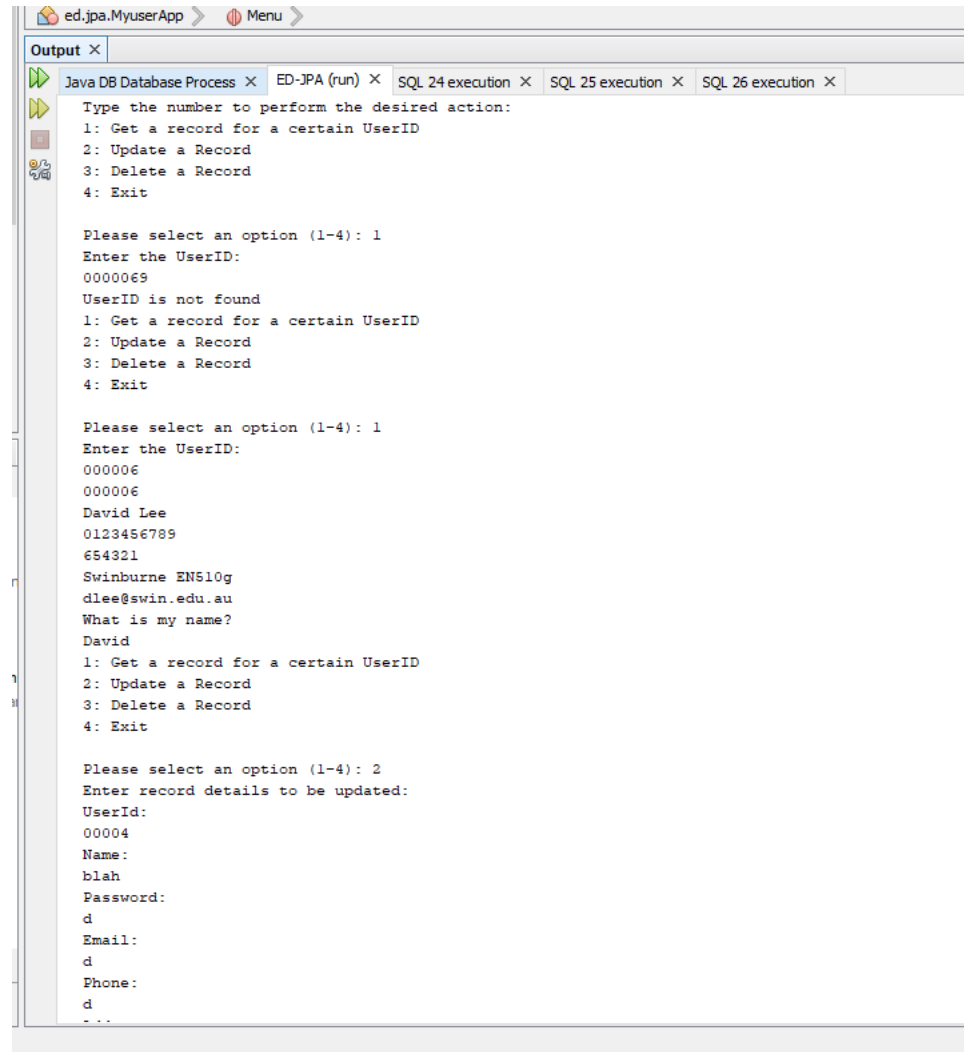
```
Source History
112
113
114
115
116         MyuserDTO myuserNew = new MyuserDTO(newUserId2, newName, newPassword, newEmail, newPhone, newAddress, newSecQn, newSecAns);
117
118         boolean outcome2 = client.updateRecord(myuserNew);
119
120         if (outcome2 == true) {
121             System.out.println("Updated Successfully");
122         } else {
123             System.out.println("Failed to update");
124         }
125     }
126     break;
127
128     case 3:
129         System.out.println("Enter the UserID:");
130         Scanner deleteUserID = new Scanner(System.in);
131         String deleteUserID1 = deleteUserID.nextLine();
132
133         boolean outcome3 = client.deleteRecord(deleteUserID1);
134
135         if (outcome3 == true) {
136             System.out.println("Deleted Successfully");
137         } else {
138             System.out.println("Failed to delete");
139         }
140     }
141     break;
142 }
143 }
144 }
145 }
146 }
147
148 public void showCreateResult(boolean result, MyuserDTO myuserDTO) {
149     if (result) {
150         System.out.println("Record with primary key " + myuserDTO.getUserid()
151             + " has been created in the database table.");
152     } else {
153         System.out.println("Record with primary key " + myuserDTO.getUserid()
154             + " could not be created in the database table!");
155     }
156 }
157
158 public boolean createRecord(MyuserDTO myuserDTO) {
159     return mydb.createRecord(myuserDTO);
160 }
161
162 //can also directly call it with client in the main code, but doing it like this to follow the format given in createRecord for good practise:
163 public MyuserDTO getRecord(String userid) {
164     return mydb.getRecord(userid);
165 }
166
167 public boolean updateRecord(MyuserDTO myuserDTO) {
168     return mydb.updateRecord(myuserDTO);
169 }
170
171 public boolean deleteRecord(String userid) {
172     return mydb.deleteRecord(userid);
173 }
174 }
175 }
```

Step 3 outputs:

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```
ed.jpa.MyuserApp > Menu >
Output X
Java DB Database Process X ED-JPA (run) X SQL 24 execution X SQL 25 execution X SQL 26 execution X

Type the number to perform the desired action:
1: Get a record for a certain UserID
2: Update a Record
3: Delete a Record
4: Exit

Please select an option (1-4): 1
Enter the UserID:
0000069
UserID is not found
1: Get a record for a certain UserID
2: Update a Record
3: Delete a Record
4: Exit

Please select an option (1-4): 1
Enter the UserID:
000006
000006
David Lee
0123456789
654321
Swinburne ENS10g
dlee@swin.edu.au
What is my name?
David
1: Get a record for a certain UserID
2: Update a Record
3: Delete a Record
4: Exit

Please select an option (1-4): 2
Enter record details to be updated:
UserId:
00004
Name:
blah
Password:
d
Email:
d
Phone:
d
...
```

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```
Output X
Java DB Database Process X ED-JPA (run) X SQL 24 execution X SQL 25 execution X SQL 26 execution X

Please select an option (1-4): 2
Enter record details to be updated:
UserId:
00004
Name:
blah
Password:
d
Email:
d
Phone:
d
Address:
d
SECQN:
d
SECAns:
d
Failed to update
1: Get a record for a certain UserID
2: Update a Record
3: Delete a Record
4: Exit

Please select an option (1-4): 2
Enter record details to be updated:
UserId:
000006
Name:
s
Password:
s
Email:
s
Phone:
s
Address:
s
SECQN:
s
SECAns:
s
```

```
Output X
Java DB Database Process X ED-JPA (run) X SQL 24 execution X SQL 25 execution X SQL 26 execution X

UserId:
000006
Name:
s
Password:
s
Email:
s
Phone:
s
Address:
s
SECQN:
s
SECAns:
s
Updated Successfully
1: Get a record for a certain UserID
2: Update a Record
3: Delete a Record
4: Exit

Please select an option (1-4): 3
Enter the UserID:
000000006
Failed to delete
1: Get a record for a certain UserID
2: Update a Record
3: Delete a Record
4: Exit

Please select an option (1-4): 3
Enter the UserID:
000001
Deleted Successfully
1: Get a record for a certain UserID
2: Update a Record
3: Delete a Record
4: Exit

Please select an option (1-4): 4
BUILD SUCCESSFUL (total time: 1 minute 43 seconds)
```

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4.1) Here myuser is the DAO object and thus is the one directly accessing the database when the object is created. So it is responsible for the ORM work

4.2) Yes because here it is working as the DAO while there it was working as the DTO

4.3) Previously it was a single, stand-alone java file that was a DTO, but now its just an object located inside the myuserDB and acting as the DAO.