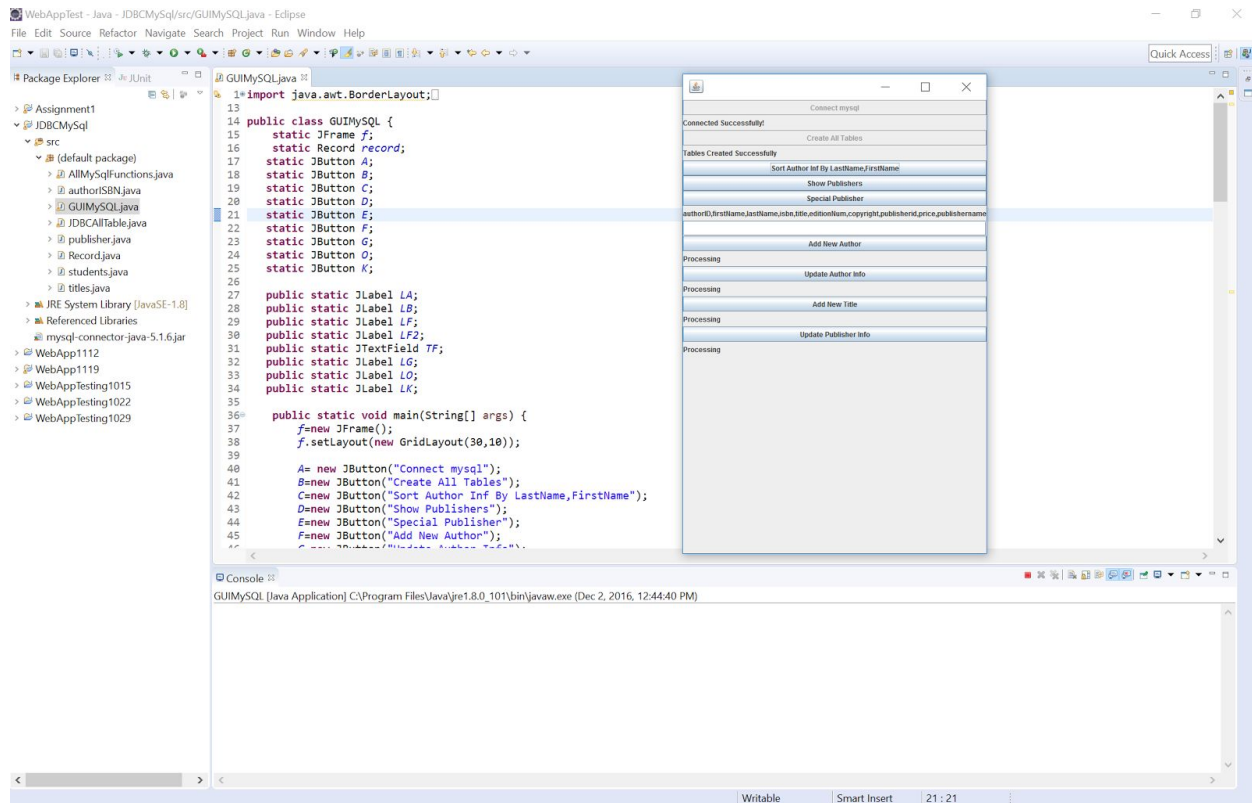


Cs596-019 J2EE Project4

Result of the project:

Firstly, in the application interface, click “connect mysql”, and “create all tables”,
That will automatically create all tables and records for the project.



Here's show all the tables and records in mysql, which are created in my project.

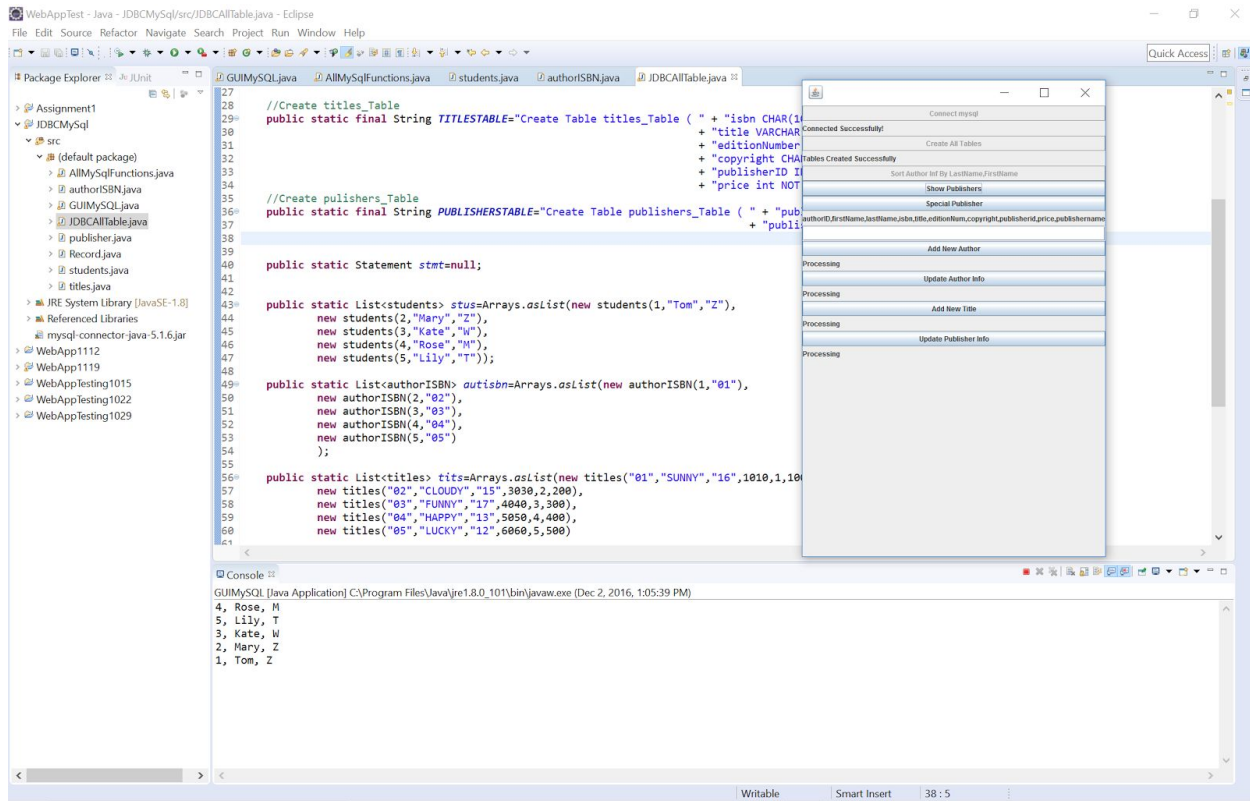
The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows a tree view of the database structure. The 'jdbc' schema is expanded, and the 'Tables' folder is selected, listing the following tables: `author_table`, `authorisbn_table`, `publishers_table`, and `titles_table`. The main query editor shows a query: `SELECT * FROM jdbc.titles_table;`. The 'Result Grid' is visible, displaying the following data:

isbn	title	editionNumber	copyright	publisherID	price
01	SUNNY	1010	16	1	100
02	CLOUDY	3030	15	2	200
03	FUNNY	4040	17	3	300
04	HAPPY	5050	13	4	400
05	LUCKY	6060	12	5	500

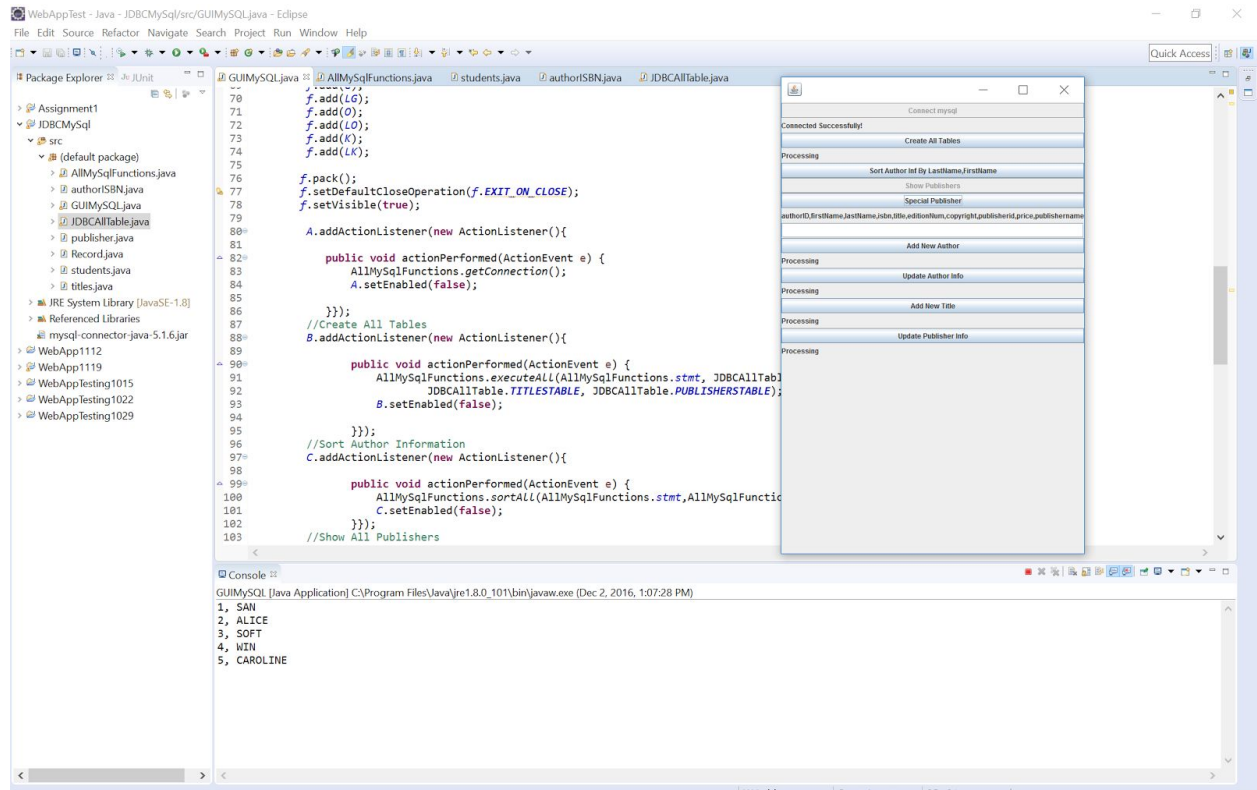
Below the query editor, the 'Output' pane shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
1	12:48:43	SELECT * FROM jdbc.author_table LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
2	12:48:44	SELECT * FROM jdbc.authorisbn_table LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
3	12:48:45	SELECT * FROM jdbc.publishers_table LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
4	12:48:46	SELECT * FROM jdbc.titles_table LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

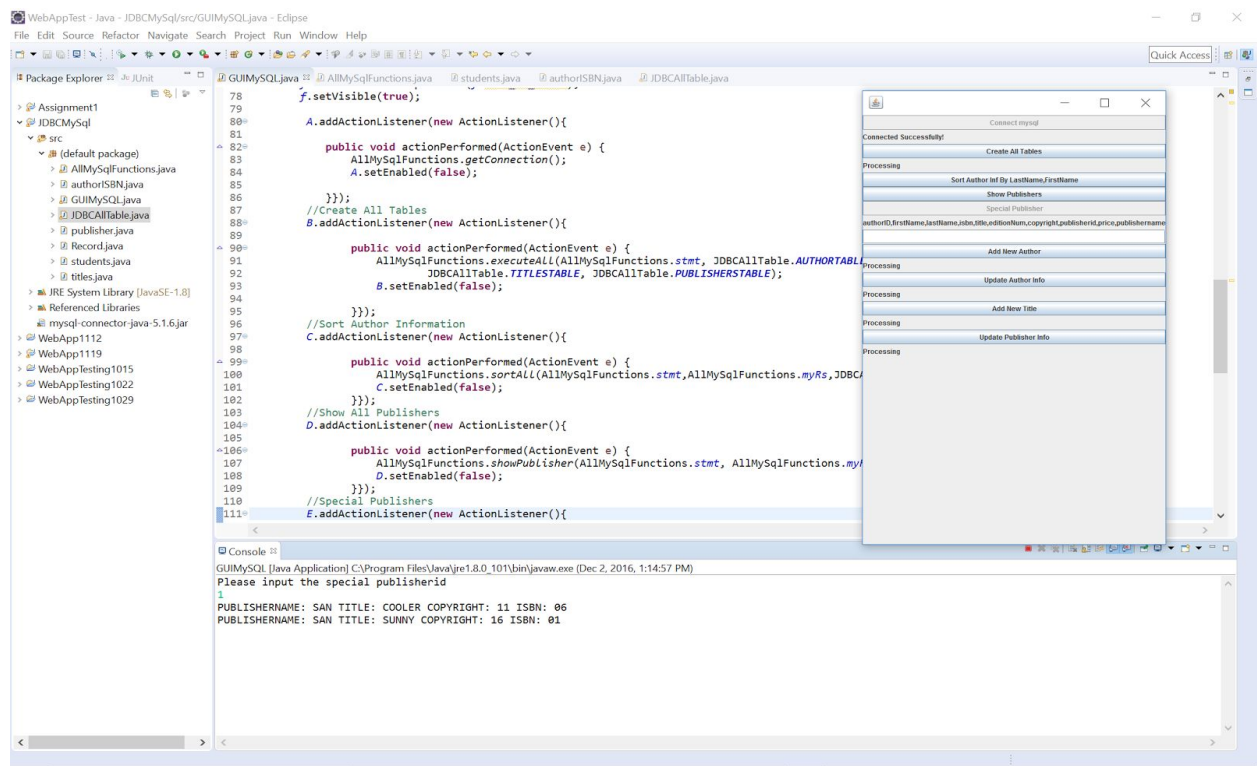
After you click "Sort Author By LastName, FirstName", the console will show the result of Author table where the result are sorted by lastname, firstname order. So the lastname will be sorted firstly, then if the lastname is same, sorted by the firstname. Like "Tom" and "Mary", if their lastname are the same, then sorted by their firstname. Follow is the result.



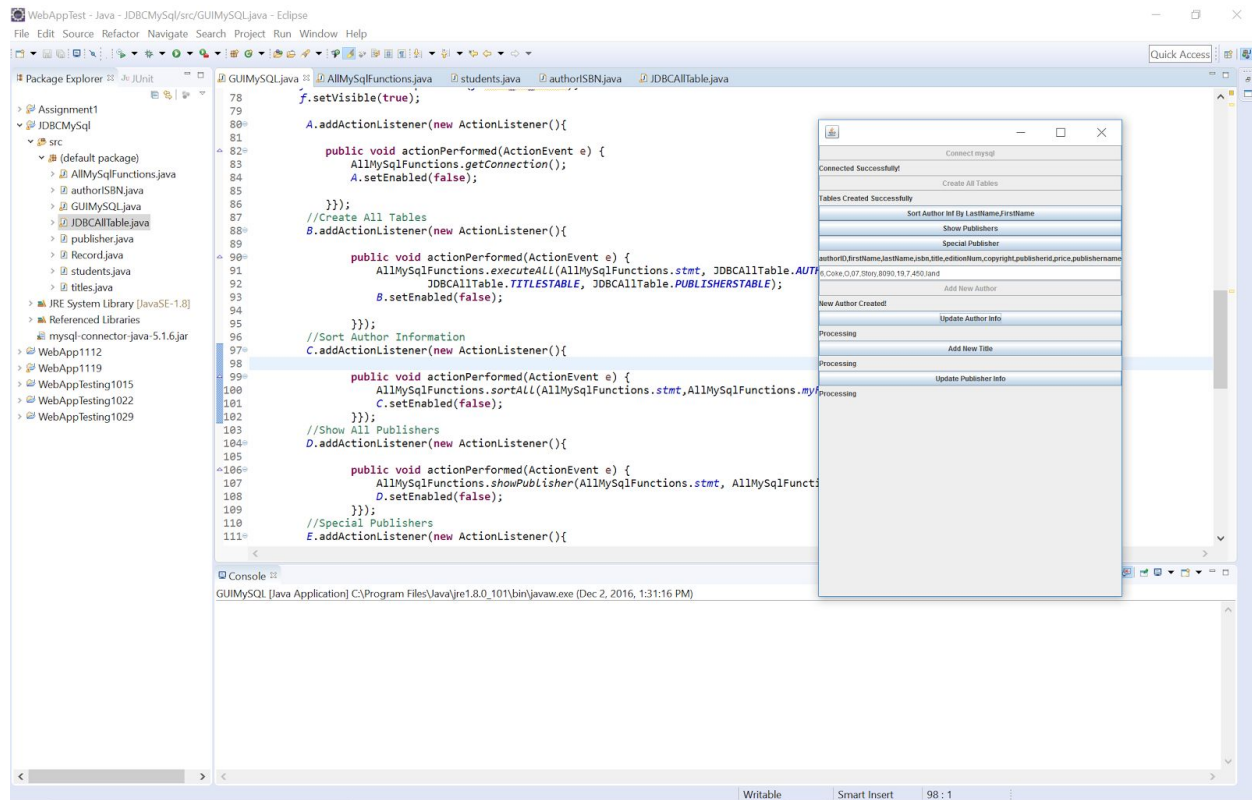
The next function is show all the publisher, click "show publishers", follow is the result:



Then click "special publisher", input publisher's id in console, then the results of that special publisher's published books information will show in the console as result.



Then fill the new information of author firstly, then click” add new author”,new author and the information of the new book are inserted into the database.

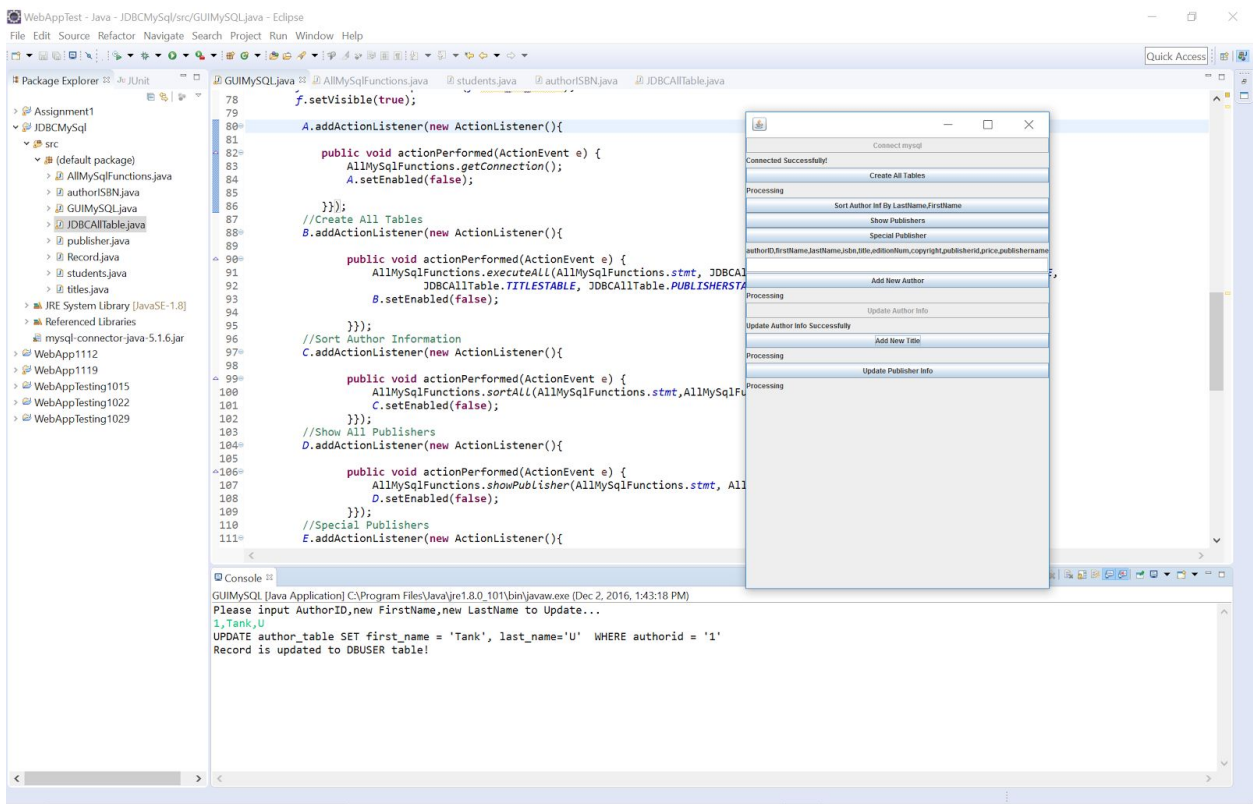


And the new information of the new Author:

authorID	first_name	last_name
1	Tom	Z
2	Mary	Z
3	Kate	W
4	Rose	M
5	Lily	T
6	Coke	O

	isbn	title	editionNumber	copyright	publisherID	price
01	SUNNY	1010	16	1	100	
02	CLOUDY	3030	15	2	200	
03	FUNNY	4040	17	3	300	
04	HAPPY	5050	13	4	400	
05	LUCKY	6060	12	5	500	
07	Story	8090	19	7	450	
	NULL	NULL	NULL	NULL	NULL	NULL

Then click "Update author info", then input the information that you will update for the author, the follow is the result in console and database.



The screenshot shows the Eclipse IDE with a Java project named "WebAppTest - Java - JDBCMySQL/src/GUIMySQL.java". The code in the editor shows the GUI logic for updating author information. The console window displays the following output:

```

GUIMySQL [Java Application] C:\Program Files\Java\jre1.8.0_101\bin\javaw.exe (Dec 2, 2016, 1:43:18 PM)
Please input AuthorID,new FirstName,new LastName to Update...
1,Tank,U
UPDATE author_table SET first_name = 'Tank', last_names='U' WHERE authorid = '1'
Record is updated to DBUSER table!

```

The database window shows the updated data in the "author_table":

authorID	first_name	last_name	isbn	the.editionNum	copyright	publisherid	price	publishername
1	Tank	U						

	authorID	first_name	last_name
▶	1	Tank	U
	2	Mary	Z
	3	Kate	W
	4	Rose	M
	5	Lily	T
	6	Coke	O
★	NULL	NULL	NULL

Add new book(title) information to database, and the new book has a new publisher information, Then follow the prompt, fill the new publisher id and name, then the result will show in the console and update in the database.

The screenshot shows the Eclipse IDE environment. The Package Explorer on the left lists the project structure, including the 'src' folder and various Java files. The main editor displays the 'GUIMySQL.java' file, which contains Java code for database operations. A modal dialog box is open in the center, showing a list of database tables and a 'Connect MySQL' button. The console at the bottom shows the application's output, including a prompt for user input and the resulting database update.

```

78 f.setVisible(true);
79
80 A.addActionListener(new ActionListener(){
81
82     public void actionPerformed(ActionEvent e) {
83         AllMySQLFunctions.getConnection();
84         A.setEnabled(false);
85     }
86 });
87 //Create All Tables
88 B.addActionListener(new ActionListener(){
89
90     public void actionPerformed(ActionEvent e) {
91         AllMySQLFunctions.executeAll(AllMySQLFunctions.stmt, JDBCAllTable
92         JDBCAllTable.TITLESTABLE, JDBCAllTable.PUBLISHERSTABLE
93         B.setEnabled(false);
94     }
95 });
96 //Sort Author Information
97 C.addActionListener(new ActionListener(){
98
99     public void actionPerformed(ActionEvent e) {
100         AllMySQLFunctions.sortAll(AllMySQLFunctions.stmt, AllMySQLFunc
101         C.setEnabled(false);
102     }
103 });
104 //Show All Publishers
105 D.addActionListener(new ActionListener(){
106
107     public void actionPerformed(ActionEvent e) {
108         AllMySQLFunctions.showPublisher(AllMySQLFunctions.stmt, AllMySc
109         D.setEnabled(false);
110     }
111 });
112 //Special Publishers
113 E.addActionListener(new ActionListener(){

```

Console Output:

```

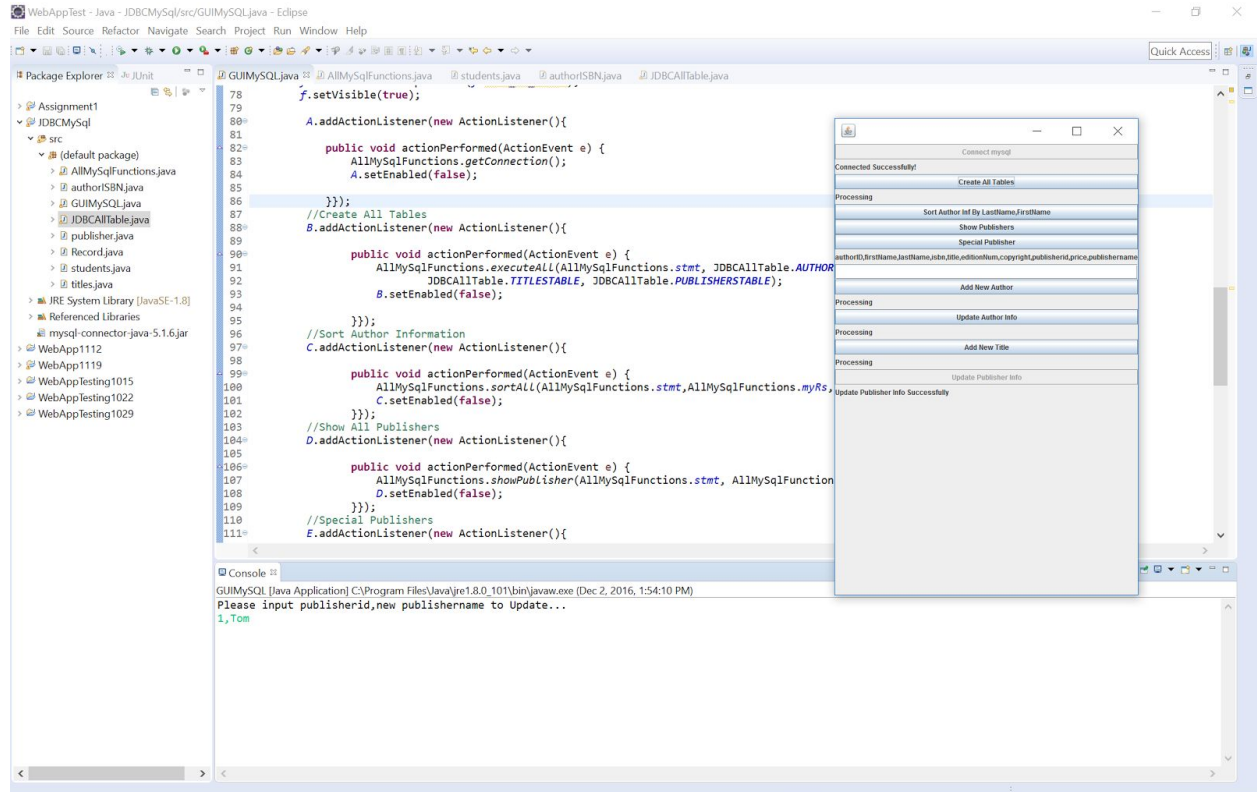
GUIMySQL [Java Application] C:\Program Files\Java\jre1.8.0_101\bin\javaw.exe (Dec 2, 2016, 1:47:23 PM)
Please input An Existing AuthorID,new ISBN,new title,editionnumber,copyright,publisherid,price to Update...
2,09,COOK,4050,18,9,350
new publishername
KING

```


Result Grid						
		Filter Rows:			Edit:	Export/Import:
isbn	title	editionNumber	copyright	publisherID	price	
01	SUNNY	1010	16	1	100	
02	CLOUDY	3030	15	2	200	
03	FUNNY	4040	17	3	300	
04	HAPPY	5050	13	4	400	
05	LUCKY	6060	12	5	500	
07	Story	8090	19	7	450	
09	COOK	4050	18	9	350	
NULL	NULL	NULL	NULL	NULL	NULL	

Result Grid		
		Filter Rows:
		Export:
		Wrap Cell Content:
publisherID	publisherName	
1	SAN	
2	ALICE	
3	SOFT	
4	WIN	
5	CAROLINE	
7	land	
9	KING	

Finally, click “update publisher info”, then input a existed publisher’s id, and a new name, then the information will be change, like I modify publisher id 1 to the name Tom, then the result will be showing in the database.



Result Grid		Filter Rows:	Export:	Wrap Cell Content:
publisherID	publisherName			
1	Tom			
2	ALICE			
3	SOFT			
4	WIN			
5	CAROLINE			
7	land			
9	KING			