

## Frequently Asked Questions:

### Where can I get information on building a GUI and Scene Builder?

Check out this resource from Lynda.com:

[Java FX and Scene Builder tutorial](#)

[Code Makery Java FX Tutorial](#)

### Is the database supposed to be empty? Is there a script to load data?

The database is created with no information. We do not have a script for importing data. Check out [MySQL workbench](#) for assistance with the SQL portion of the assessment.

### What is a good default user/password?

We suggest using:

user name: test

password: test

as your default username and password. We also recommend adding other users and passwords for testing purposes. Always make sure to include your default username and password in your documentation.

### Can I make changes to the database tables? There seems to be a primary key missing...

At this time we request that you not make changes to the database tables. Document any assumptions that you make about the data entered into the database tables in a README or in the comments for your files. Some students have put on an auto-increment for the primary key fields and, since that does not change the structure of the database, it is likely ok.

### Can I use <framework>?

You are free to use other frameworks in your project design. Please include all files necessary for compilation and notes in a README file.

### Can I use external libraries or code?

All code for this program should be built by you (refer to the project specifications a description of how to give credit for any tutorial code that you may use. ) Please do not use code for pre-built calendars or screen widgets unless they are part of the regular API.

### What is a 'consultant' for the Appointments by Consultant report?

We see the user table as a good choice for the Consultant report. Some students prefer to use the Customers as consultants. If you have made a different choice, then document it in a README file. If you do use the user table, use the createdBy field in the Appointment table to filter although that field would normally be used only for auditing.

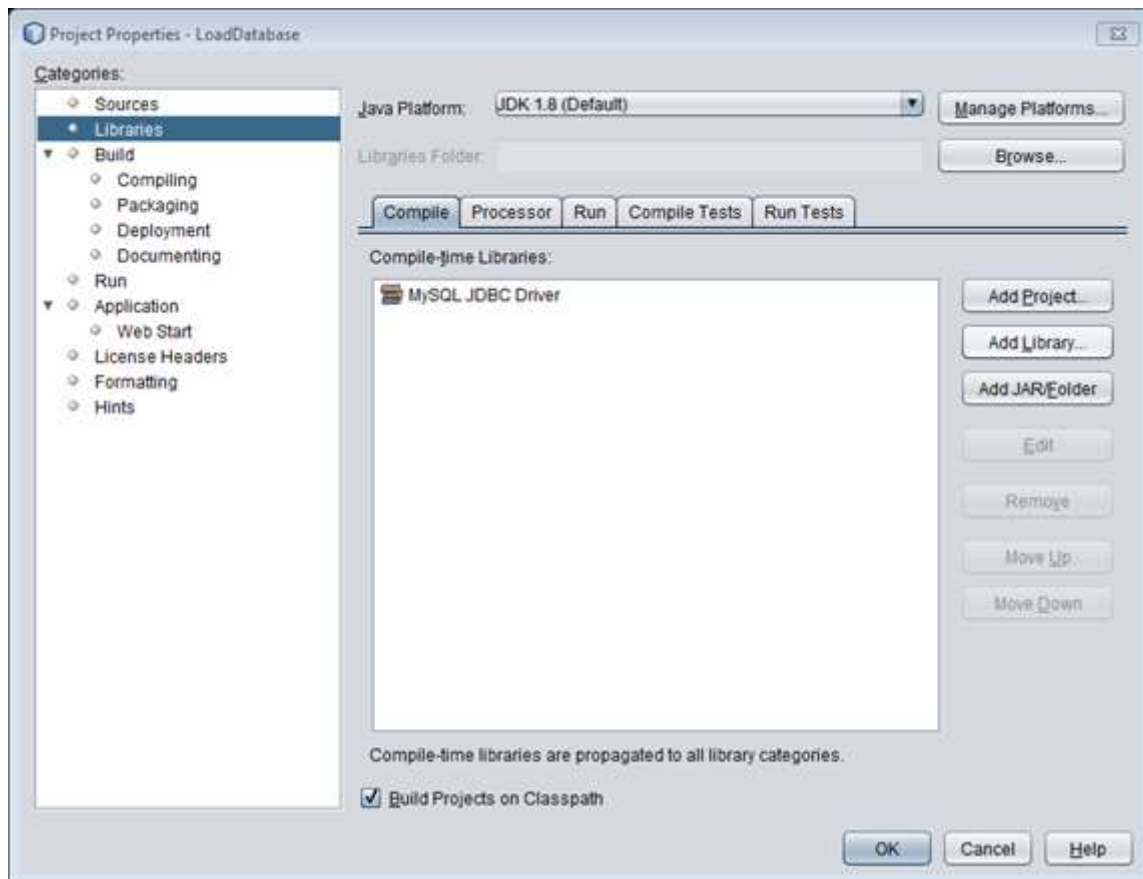
### What should I enter for <some information into the database>?

We understand that the information entered into the database may vary by student. Any decisions that you make about the data in the database tables should be included in your documentation.

### I included the import for the JDBC drivers but I am getting a ClassNotFoundException and my program will not connect to the database.

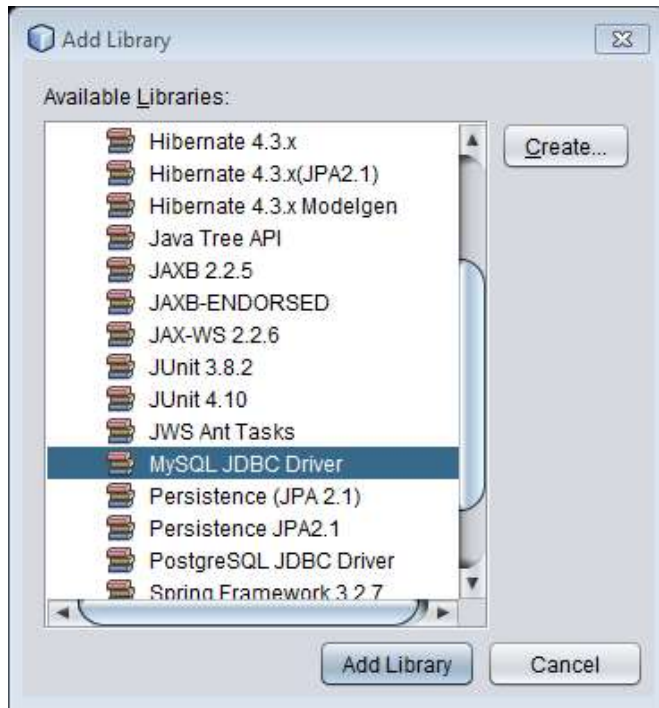
A ClassNotFoundException which usually means that the Run Configuration is not setup to include the JDBC library. Here are instructions to include the library in NetBeans. If you are using a different editor, try searching for help on 'include jdbc' or include MySQL library. (Scroll down for screen shots.)

In order to get NetBeans to find the jdbc:



Click on Run->Set Project Configuration->customize

Click on Add Library



Choose the JDBC Library (screen should look like above)

**I'm using stored procedures, and I can't get the time to display in the correct time zone.**

There is a bug in the JDBC driver that when you use a stored procedure to update timestamp fields it always saves the date in local time. So if you are attempting to save the time in UTC, a stored procedure won't allow you to do that. There is a patch, but there is no guarantee that the evaluators will have that patched driver.

For more information, go here: <http://www.smapp.com.hk/blog/?p=29>

Then save the configuration.

\*If you are unable to get the current version driver (5.1.41 or later) working in NetBeans, try installing an older version of the jdbc driver. This seems to be a NetBeans only problem.

Please download the connector from the following link and give it a try:  
<https://mvnrepository.com/artifact/mysql/mysql-connector-java/5.1.21>

**Section F requires two methods of exception control. What are examples of exception controls?**

Based on the material, different examples of exception control would be:

- try/catch blocks
- try with resources blocks
- assertions
- throw/throws clauses

Most projects will contain try/catch and try with resources but this is a good chance to work with assertions and design for throw/throws clauses.

**What is the difference between a pop-up and an alert?**

This is not a 'hard' technical definition, but we think a pop-up is a window with information that is planned (such as a reminder). An alert is a window that pops up to indicate something may be wrong or to provide extra help and may not be encountered routinely.

**Section C requires using lambda expressions to schedule and maintain appointments. What does that mean? Do I have to use them everywhere?**

Use lambda expressions where they make sense in the design of the appointments class (and document your process). You are not expected to substitute lambda expressions in places where they would not fit well.

**Section G requires using lambda expressions for standard popup and alerts. What does that mean? Can I get any help with that?**

Use lambda expressions where they make sense in the design of popups and alerts. Here is a tutorial from Code Makery on converting the old style of alerts to using lambda expressions:

<http://code.makery.ch/blog/javafx-dialogs-official/>

**Section A requires a login form that can determine the user's location and translate the login and error control into two languages. How is that tested?**

Some evaluators test it by putting the following line of code in your code when testing for the second locale:

```
Locale.setDefault(new Locale("fr", "FR"));
```

We've confirmed that it is acceptable for you to test your code in this way. (You'll need to change the French indicators for whichever region/language you've chosen to support.) (This is the only instance in which evaluators change your code in any way.)

**Do I need code that checks for appointments once upon login and displays a message if there are any 15 min away? Or do I need to use another thread to handle thread.sleeps and constantly check for appointment times?**

From evaluation:

I have seen it both ways as well and passed it using both ways.

With that being said, the way that I would suggest is to do the alerts at login. Below is an example:

There is an appointment for the user at 2PM in their current time zone. The user logs in somewhere between 1:45pm and 1:59:59 (in the current time zone) and they get an alert that provides enough detail that they know what the meeting is. The alert can't be vague or too basic. It needs to let the user know enough information that they could reasonably understand that the alert is for a specific meeting.

- Example: "You have a meeting" (Not expectable)
- Example: "You have a meeting with Client X" (Expectable)
- Example: "You have a meeting with Client X at 2PM" (Expectable)

**How do I get the locale codes for the region/language I've chosen?**

This link lists all of the codes:

<http://www.science.co.il/language/Locale-codes.php>

**What do the directions mean when they say that the appointment times must change according to the user's time zone?**

To evaluate that portion of your project, the evaluator will run your application in their own time zone, and then change their system's time zone. They'll run your application again and expect your appointments to reflect the new time zone. We recommend that you mimic this test!