

Phase 06: Application Walkthrough and Demonstration

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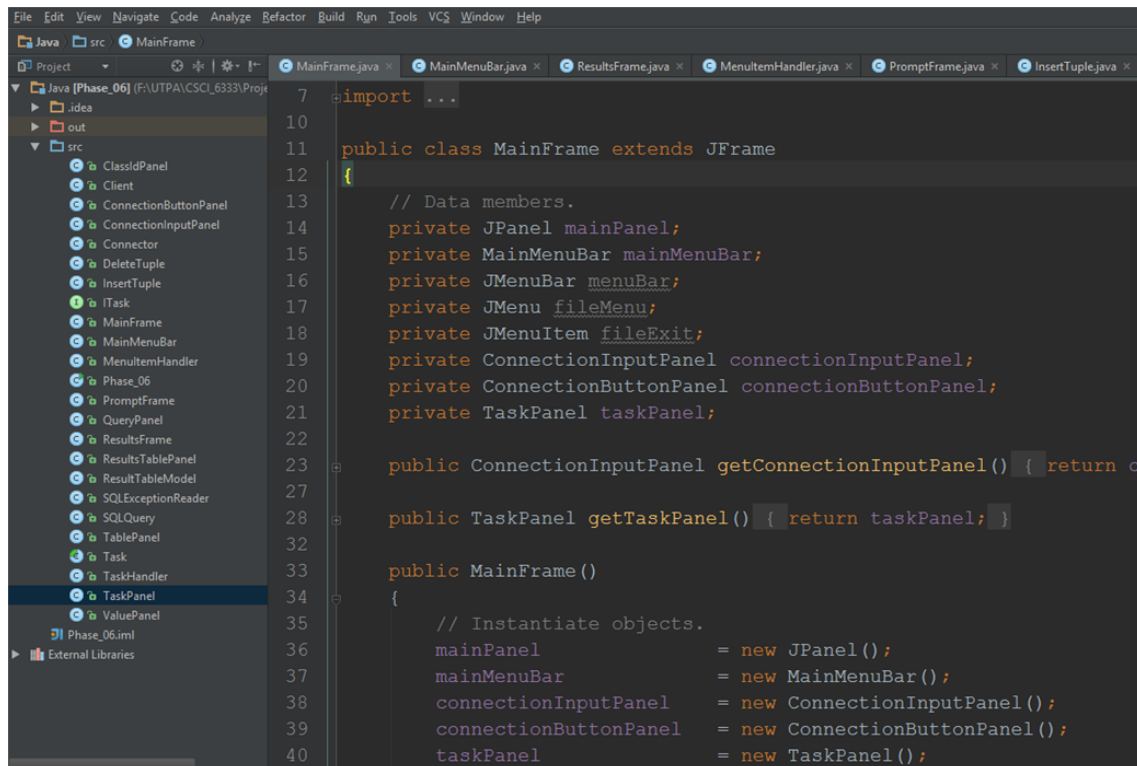
Spring 2015

Development

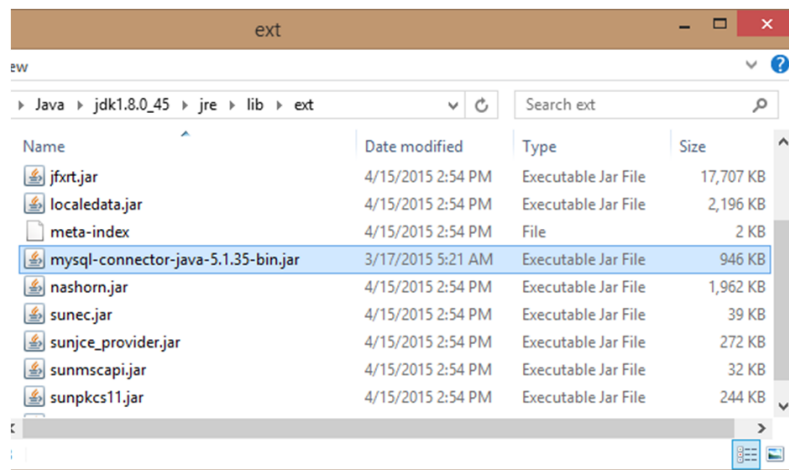
IDE: IntelliJ IDEA

SDK: jdk v 1.8.0_45

Connector/J: v 5.1.35

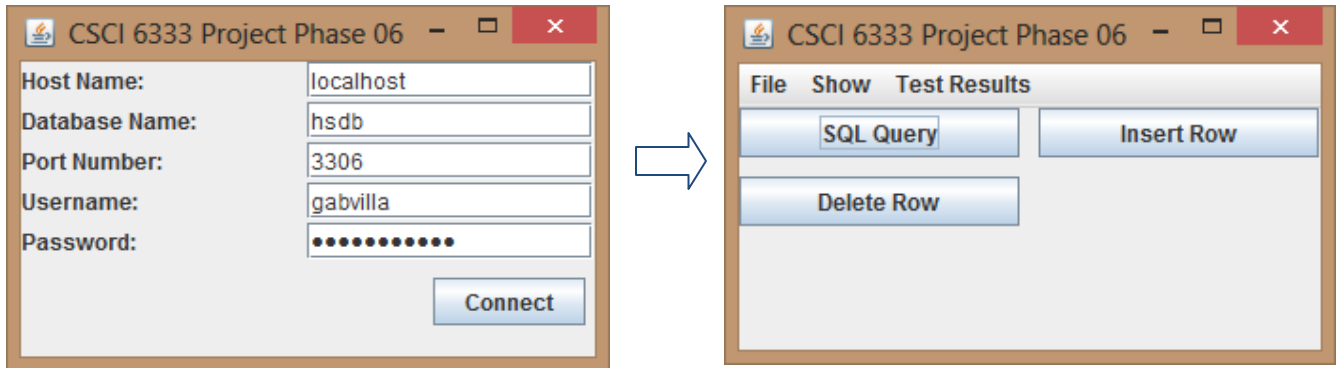


The connector/J file (.jar) was copied into the directory shown below. When building the application you can copy the .jar file into the ../jre/lib/ext directory and it will be available for all applications that execute within the JVM.

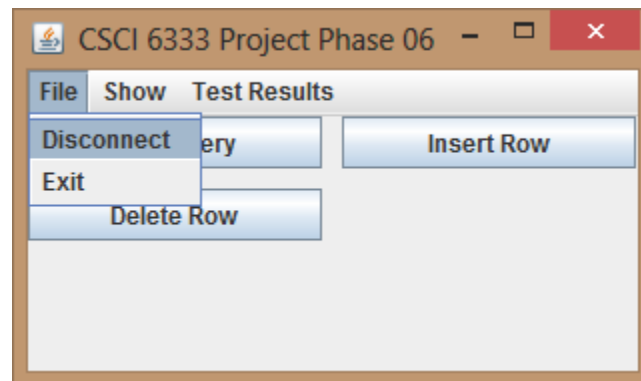


Demonstration

When the application is launched, a login window (shown below) is displayed, requesting the user the necessary information to connect to the database.

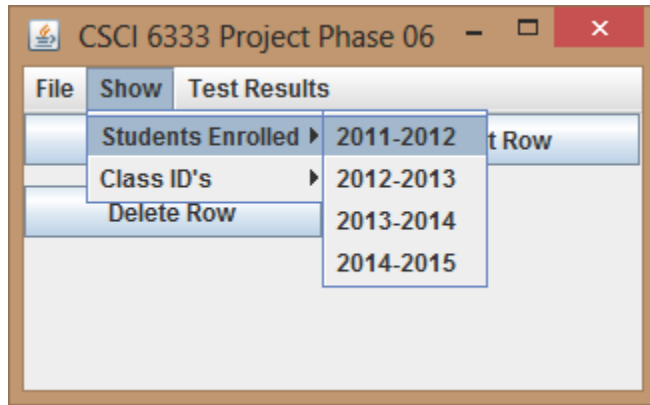


Once the Connect button is pressed (with the correct information in the fields), the main panel is shown with a menu bar containing various options. These options or menu items are explained below.



The 'Disconnect' item from the 'File' menu takes the user back to the login window. 'Exit' terminates the application (Same as hitting 'x' in the upper right side of the widow). The rest of the menus and menu items display queries in an easy to understand format (See queries below). The buttons in the main panel are for advanced SQL users (e.g. Administrator).

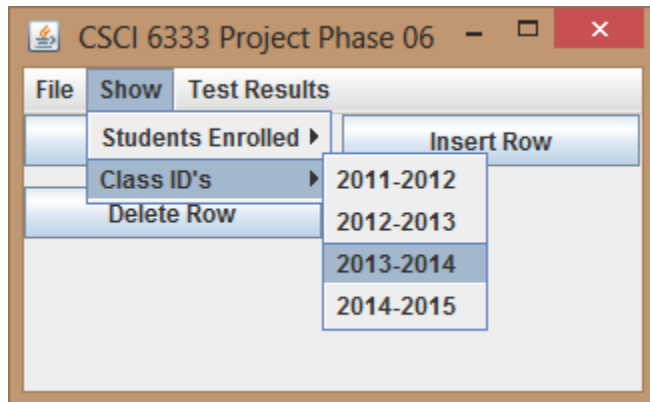
Query 1 (Students Enrolled in Classes)



Query Results

studentId	level_	name	DOB	...	classId	finalGrade	hasPassed	...	sect.	startDate	endDate	schoolYr
150001	Freshman	Ryan Kline	1998-05-30	...	1211	A	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150005	Freshman	Matthew James	1999-07-20	...	1211	F	N	...	1.1	2011-05-20	2012-08-18	2011-20
150020	Freshman	Lawrence Combs	1999-10-31	...	1211	B	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150040	Sophomore	Levi Farmer	1997-04-10	...	1211	B	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150055	Freshman	Ali Hart	1999-12-11	...	1211	A	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150059	Sophomore	Duncan Hinton	1997-03-26	...	1211	F	N	...	1.1	2011-05-20	2012-08-18	2011-20
150065	Freshman	Benjamin Henson	1998-08-14	...	1211	F	N	...	1.1	2011-05-20	2012-08-18	2011-20
150075	Freshman	Jasper Vincent	1998-03-08	...	1211	A	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150078	Freshman	Tyler Torres	1998-05-02	...	1211	B	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150089	Sophomore	Orlando Burch	1997-04-21	...	1211	F	N	...	1.1	2011-05-20	2012-08-18	2011-20
150209	Sophomore	James McAvoy	1997-07-22	...	1211	F	N	...	1.1	2011-05-20	2012-08-18	2011-20
150211	Junior	Emily Blunt	1995-02-22	...	1211	A	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150220	Junior	Dan Smith	1996-01-11	...	1211	A	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150225	Junior	Reese Witherspoon	1996-09-01	...	1211	C	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150244	Junior	Elvis Presley	1995-04-12	...	1211	F	N	...	1.1	2011-05-20	2012-08-18	2011-20
150255	Junior	Mike Hilton	1995-03-23	...	1211	A	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150271	Junior	Vincent Price	1994-08-18	...	1211	B	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150280	Junior	Shean Combs	1995-11-31	...	1211	C	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150281	Senior	Ryan Renalds	1995-06-30	...	1211	B	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150298	Junior	Jose Gomez	1995-06-02	...	1211	A	Y	...	1.1	2011-05-20	2012-08-18	2011-20
150401	Senior	Megan Salinas	1994-08-18	...	1211	B	Y	...	1.1	2011-05-20	2012-08-18	2011-20

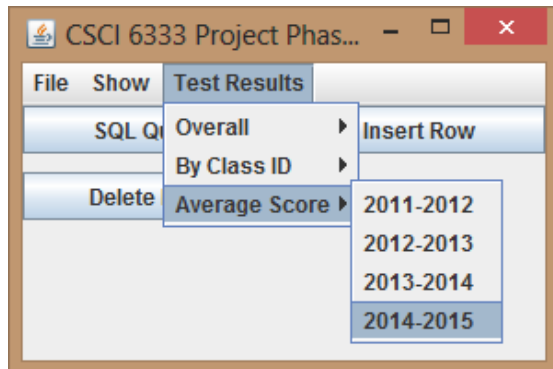
Query 2 (Class ID's Available for School Year)



Query Results

Class ID's (2013-2014)	
classId	
1212	
1232	
1242	
2312	
2332	
2342	
3411	
3412	
3421	
3431	
3432	
3441	
3442	
3451	
3461	
3471	
3472	
3481	
4512	
4532	
4542	

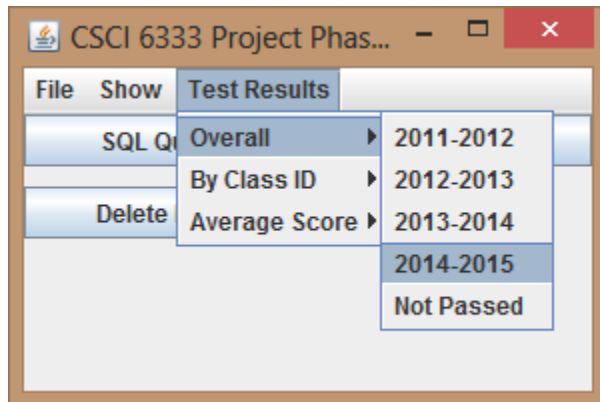
Query 3 (Average Test Score)



Query Results

Average Test Score (2014-2015)	
Average	
56.4865	

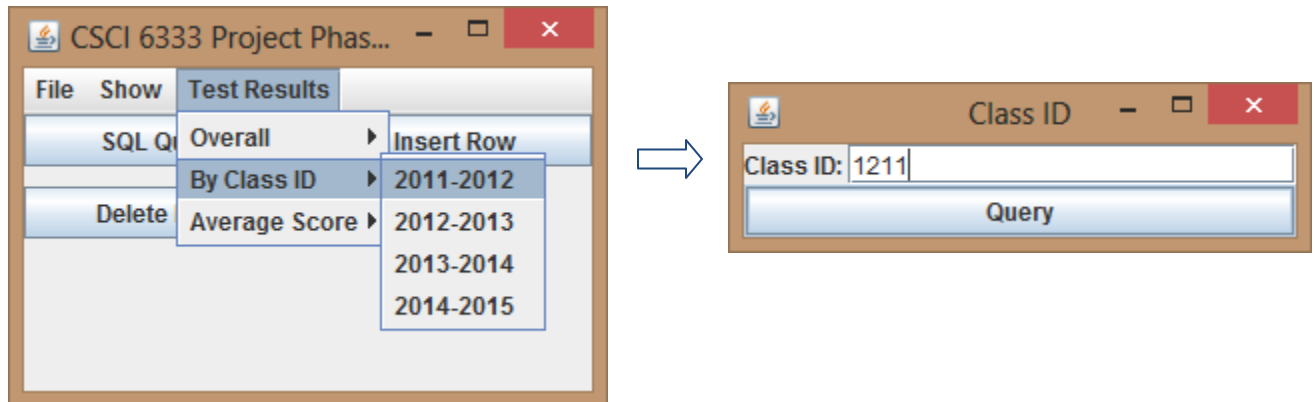
Query 4 (Number of Students that Passed Test, ordered by Subject)



Query Results

Students that Passed Tests (2014-2015)		
subject	StudentCount	hasPassed
English	49	Y
Math	60	Y
Science	29	Y
Social Studies	10	Y

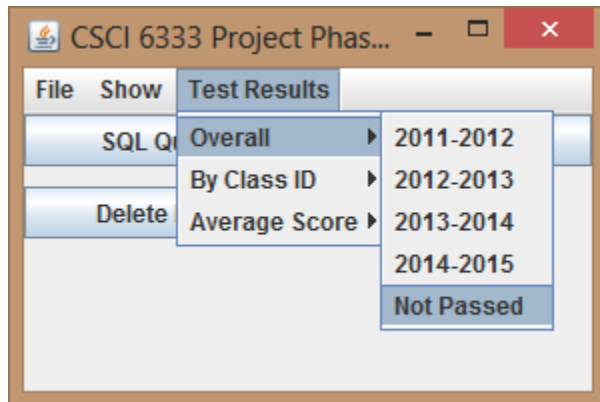
Query 05 (Students that Passed both Class and Test)



Query Results

name	classId	hasPassed
Megan Salinas	1211	Y
Phoebe Lopez	1211	Y
Emma Watson	1211	Y
Esteban White	1211	Y
Eloina Gonzalez	1211	Y
Steve Cavazos	1211	Y
Jorge Rodas	1211	Y
Rubi Cantu	1211	Y
Victor Salinas	1211	Y
Michael Jackson	1211	Y
Laura Lopez	1211	Y
Monica Treviño	1211	Y
Megan Salinas	1211	Y
Phoebe Lopez	1211	Y
Emma Watson	1211	Y
Esteban White	1211	Y
Eloina Gonzalez	1211	Y
Steve Cavazos	1211	Y
Jorge Rodas	1211	Y
Rubi Cantu	1211	Y

Query 6 (Students that haven't passed any Tests)



Query Results

The screenshot shows a window titled "Students That Haven't Pass Tests". It contains a table with a single column labeled "name". The table lists the following students:

name
Javier Lopez
John Doe
Paul Walker
Adam Levine
Pedro Lopez
Lizette Hernandez
Raul De Hoyos
Matthew James
Levi Farmer
Ali Hart
Duncan Hinton
Jasper Vincent
Orlando Burch
Kevin Hart
Steve Combs
James Matthews
Ryan Pine
Dun Hilton
Mark Torres
Emily Blunt
Dan Smith
Reese Witherspoon
Elvis Presley
Mike Hilton
Carlos Garcia
Alex Marroquin