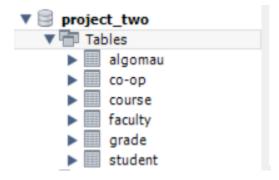
COSC 4606 Project 2

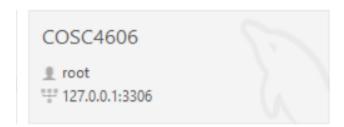
David Asare

Username: Dasare

Tables exported from MS Access to MYSQL workbench



I am using the root user as the database administrator since it has all the administrator privileges.

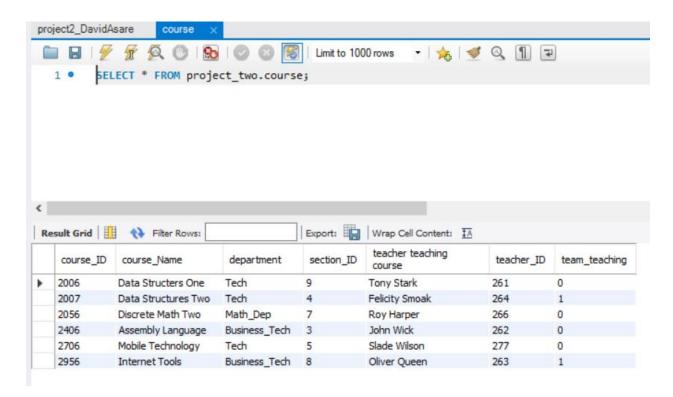


JDBC Demo

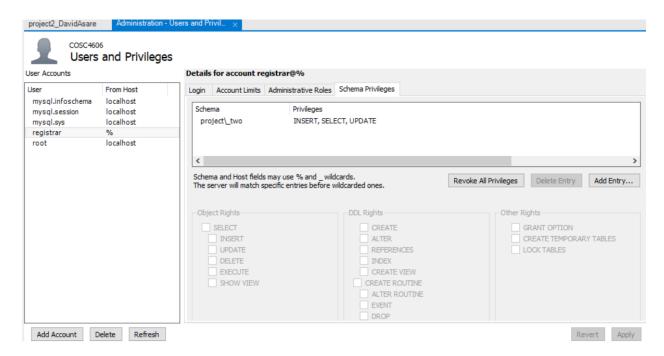
Below is a screenshot of the jdbc driver printing out the first 3 columns from the COURSE database using the InteliJ programming app.



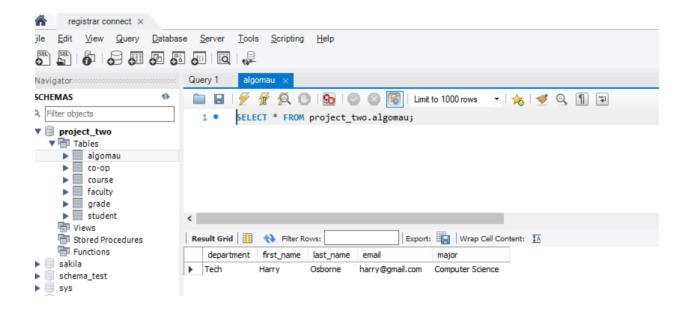
Full COURSE table in MySQL workbench



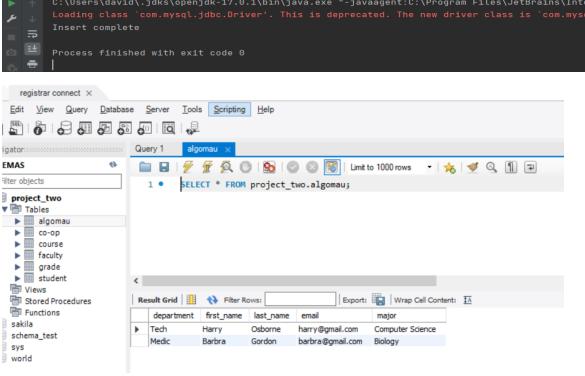
Registrar User



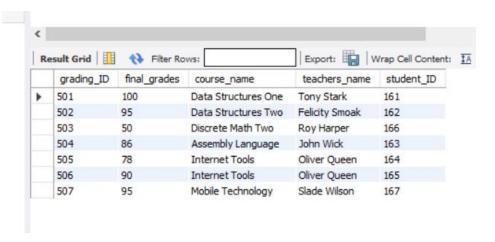
This is the ALGOMAU table below showing a student registered in the university.



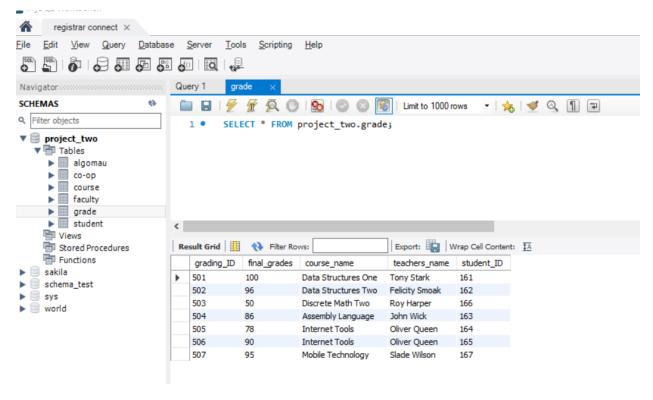
After the insert code was successful in the JDBC, the student "Barbra Gordon" was in enrolled into the Algoma university in the ALGOMAU table.



Current grade table.

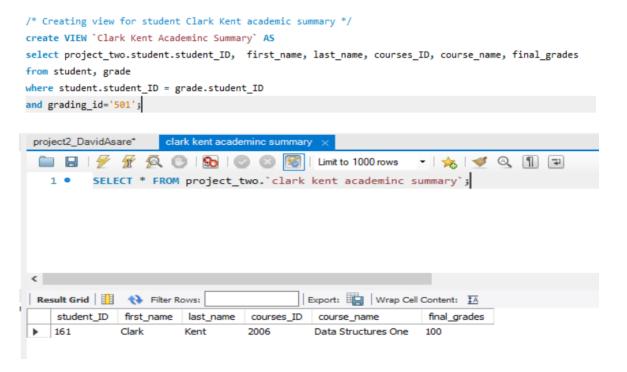


Updating final grade 95 to 96 where "grading_ID" is 502 successfully.

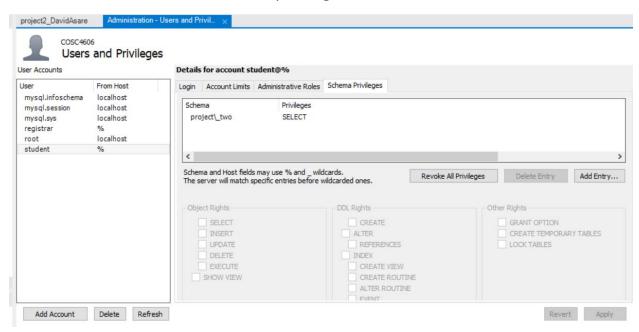


Students User

First I created a view for the student Clark Kent for his academic summary, joining the student and grade tables with dba.



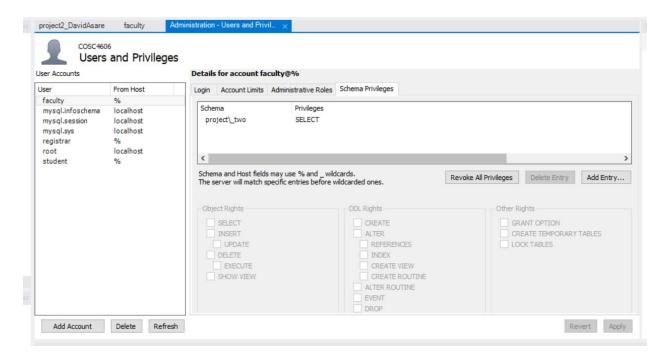
This is the student user with select privilege.



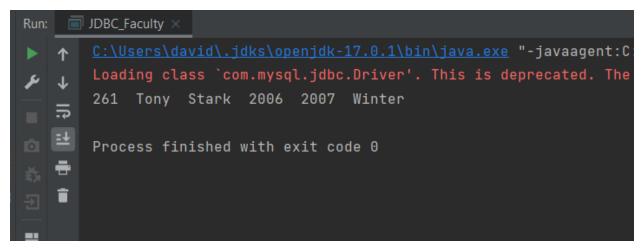
Viewing academic summary for Clark Kent with JDBC successfully.

Faculty User

```
/*Creating view for faculty member Tony Stark */
create VIEW `Tony_Stark_Courses_Taught` AS
select teacher_ID, first_name, last_name,course_offered, second_course_offered, Term
from faculty
where teacher_ID= '261';
```

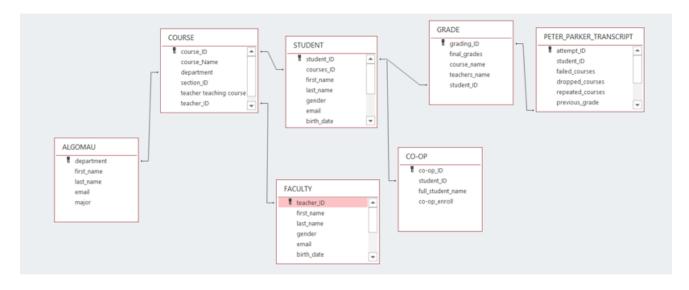


This is going with the scenario of Tony Stark viewing his class list below successfully.

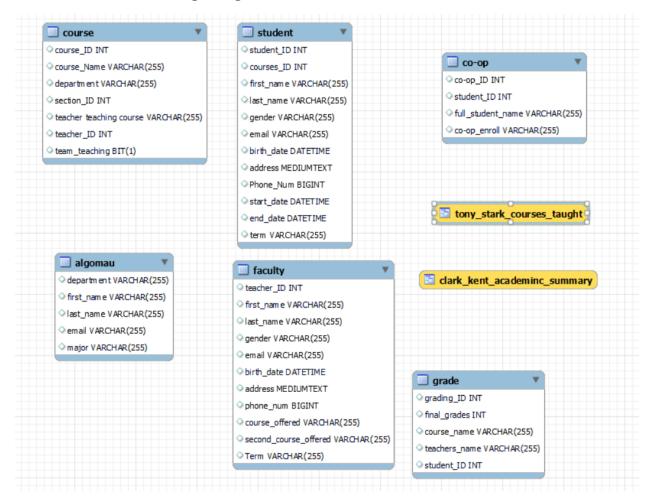


ER-Diagram

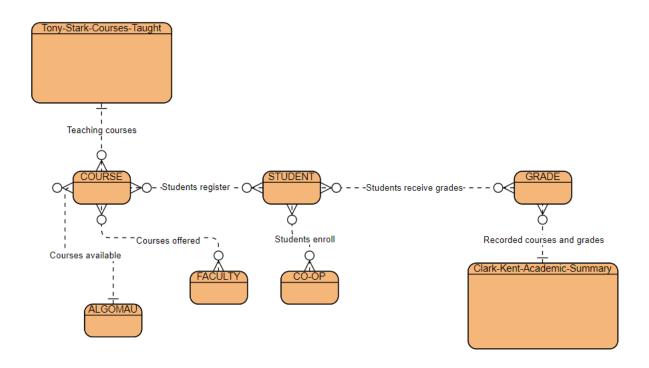
Database Schema below.



Tables and views of diagram generated in the workbench.

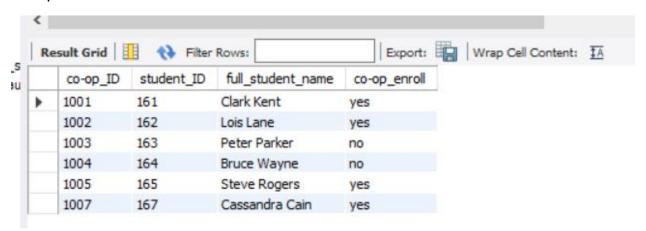


Relationship of the ER-Diagram below.



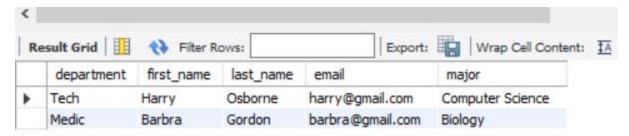
Normal Forms

Co-op table.



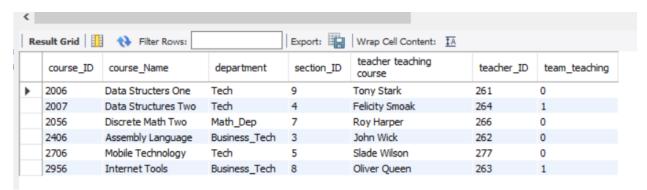
The table is in 1NF because the values are not divided. The columns contain values of the same type and each column has a unique name. This is 2NF as well because the columns depend on the "co-op_ID" attribute.

Algoma Table



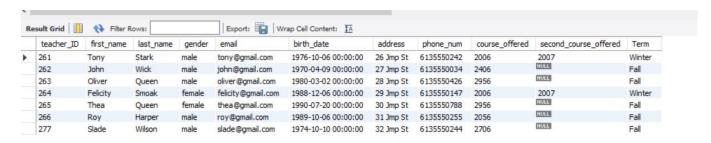
This is 1NF because values are not divided, columns have unique names and values of the same type. It is also 2NF because all the columns can depend on "department" column.

Course Table



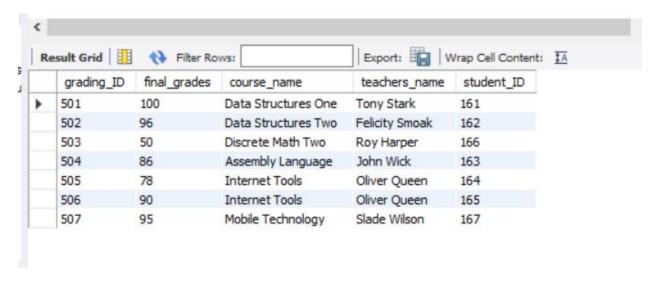
This is 1NF because values are not divided, columns have unique names and values of the same type.

Faculty Table



This is 1NF because values are not divided, columns have unique names and values of the same type. It is also 2NF because all the columns can depend on the "teacher ID" attribute.

Grade



This is 1NF because values are not divided, columns have unique names and values of the same type. It is also 2NF because all the columns can depend on the "grading_ID" attribute.

Student



This is 1NF because values are not divided, columns have unique names and values of the same type. It is also 2NF because all the columns can depend on the "student_ID" column.

Forms

Below are the forms viewed in MYSQL workbench which have the same functionality as MS Access in project 1.

Algomau Form



CO-OP Form



Course Form



Faculty Form



Grade Form



Student Form



Reports from Project 1

		-			
CO-OP_REPOI	RT				
full_student_name		course_ID	section_ID	term	
Bruce Wayne		2956	8	part-time-fall	
Cassandra Cain		2706	5	full-time-fall	
Clark Kent		2006	9	full-time-fall	
Lois Lane		2007	4	full-time-fall	
Peter Parker		2406	3	part-time-fall	
Steve Rogers		2406	3	full-time-fall	
October 11, 2021					Page 1 of 1

DEGREE_ENROLLM	ENT_REPORT		
full_student_name	student_ID	Phone_Num	department
Bruce Wayne	164	6135550150	Business_Tech
Cassandra Cain	167	6135550162	Tech
Clark Kent	161	6135550693	Tech
Lois Lane	162	6135550970	Tech
Peter Parker	163	6135550721	Business_Tech
Steve Rogers	165	6135558022	Business_Tech
October 12, 2021			Page 1 of 1

acher_ID	first_name	last_name	course_ID	phone_num	student_ID	Term
261	Tony	Stark	2006	6135550242	161	Winter
264	Felicity	Smoak	2007	6135550147	162	Winter
262	John	Wick	2406	6135550034	163	Fall
263	Oliver	Queen	2956	6135550426	164	Fall
262	John	Wick	2406	6135550034	165	Fall
277	Slade	Wilson	2706	6135550244	167	Fall

October 12, 2021 Page 1 of 1

erm	course_ID	course_Name	teacher_ID
all		Discrete Math Two	266
	2406	Assembly Language	262
	2706	Mobile Technology	277
	2956	Internet Tools	263
Vinter	2006	Data Structers One	261

October 12, 2021 Page 1 of 1

<u>References</u>

https://www.javatpoint.com/example-to-connect-to-the-mysql-database

https://dev.mysql.com/doc/connector-odbc/en/connector-odbc-examples-tools-with-access-export.html