

## CT230 DATABASE SYSTEMS

### ASSIGNMENT: 5

LAB DATE: 30<sup>TH</sup> OCTOBER 2018, 1<sup>ST</sup> AND 2<sup>ND</sup> NOVEMBER 2018

**Due:** (via Blackboard) by Friday 9<sup>th</sup> November 2018

\*there is a penalty for late submissions\*

**Learning Outcomes:** To become more familiar with the SQL DML commands and the use of phpMyAdmin.

**Overview:** This assignment continues to use the book database created in assignment 2 but requires the use of phpMyAdmin instead of Adminer.

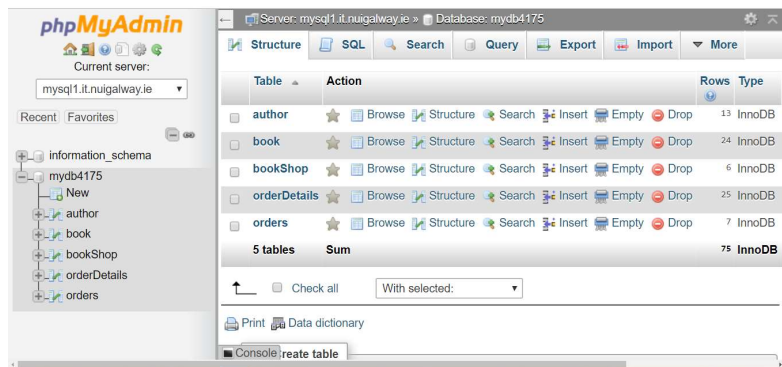
**Please note that your database name should be clearly visible in all screen shots – the grey coloured header portion not the left-hand side margin.**

## TASK 1: Using phpMyAdmin

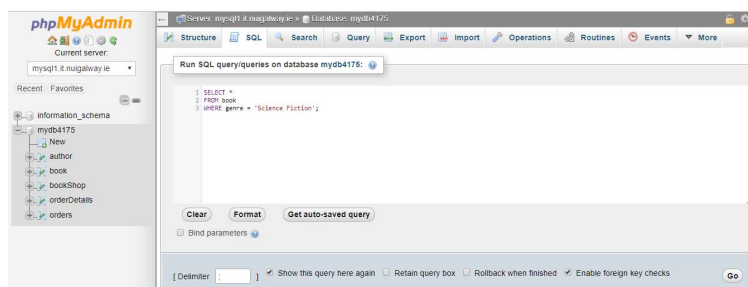
(Note you can skip this task if you are already using phpMyAdmin)

Go to: <http://danu6.it.nuigalway.ie/phpmyadmin/> and use the same login details as previously.

Become familiar with the new interface, e.g., you should see something like the following when you click on the database name in the LHS window:



Note that the “SQL” tab should be used for entering and running queries (not the Search tab). Click on the “Go” button to run queries.



## SCHEMA:

**author** (aID, fName, surname)

**book** (isbn, title, authorID, genre, pubYear, publisher, rrPrice, avgRating)

**bookShop** (shopNo, shopName, street, city, county)

**orders** (orderNo, sNo, oDate, salesRep)

**orderDetails** (oNo, bookISBN, quantity)

## TASK 2: SQL Select Queries

Write SQL Select queries to satisfy the following information needs:

1. For each *salesRep*, find the number of orders taken by the *salesRep*.
2. Using an explicit inner join syntax, for each author with more than one book in the database, list the author name and the number of books held in the database by that author, order the results by author surname.
3. Using a subquery approach, find the number of times the book with the title 'Room' was part of an order.
4. List the details of the shops who have only placed one order.
5. List the details of books (title and author) which are not part of any order.
6. Calculate the total cost of the order which was placed by the shop "Village bookshop" on the date '27/09/2018'.

## HAND UP:

1. For each query include the SQL code (one screenshot of code only) and a screenshot of the results in your solution. To aid correction, please keep the SQL query code and the associated output (results) together (near each other) and label correctly (1-6).
2. Follow the assignment template guidelines given and ensure that all the specified outputs, the plagiarism declaration, the timestamp and the database name are included. Show the header ribbon with the database name for all screenshots. In phpMyAdmin this is grey and looks like:

