Databases1 coursework instructions

In this coursework you will use the MySQL database management system to write queries to interrogate a small database called 'Shop'. You should submit your queries and results for marking. The coursework is binary marked, so you receive the full marks for a serious attempt at the coursework (whether or not you get the right answers).

phpMyAdmin is the graphical user interface client for using MySQL. Select 'MySQL (phpMyAdmin interface)' from the current moodle page.

You will be asked for a user name ('student') and password ('db1coursework').

In the left hand pane, select the Shop database (by a single click). You will see a list of the tables contained in the Shop database. Now select the SQL tab. You can query the shop database by writing SQL queries in the pane and submitting them with the go button.

Try these retrievals from the database: who ordered an S7? Select the SQL tab and in the blank pane paste the following SQL statement then execute it by pressing the 'go' button:

```
SELECT orders.orderID, customers.custID, firstname, familyname
FROM orders, lineitems, customers
WHERE lineitems.itemID = 'S7'
AND orders.orderID = lineitems.orderID
AND orders.custID = customers.custID
LIMIT 0 , 30
```

Now find out how many customers live in each state. This query involves the use of an aggregate and group by clause.

```
SELECT state, COUNT( custID )
FROM `customers`
GROUP BY state
LIMIT 0 , 30
```

The assignment questions

Create your own queries to answer the assignment questions found in the 'The query questions' file linked to the moodle page for this coursework.

For your submission, you should create **a single pdf file** containing a query and the corresponding result set for each of the query questions.

phpmyadmin allows you to export your query results to a spreadsheet file. I suggest you collect all your queries and query results in a single spreadsheet file then convert it to pdf to submit.

Upload your file to the course moodle pages using the coursework submission link. Model answers will be published after the submission date.

Please note - we are only able to mark submissions presented as single pdf files, not archives of pdf files or any other format.