Lab 09.01 Databases

Using databases

Overview

I am assuming that you have done the database module last term, so this lab is just a refresher for you.

Before the lab

Install a mysql database on your machine, if you do not already have one.

Windows

I recommend installing WAMP, go to

 http://www.wampserver.com/en/download-wampserver-64bits/

You may need to install the Microsoft C++ dll to get it to work, link is on the download page. Make sure that you get the same version (32bit or 64 bit) as your wampserver.

mac/linux

Download MySQL from mysql.com

https://dev.mysql.com/downloads/installer/

you may want the MySQLworkbench as well to make connections and run the sql.

NOTE: I am assuming that you have already done this in the database module so have not gone into it in great detail

Mysql

1. Create a table in mysql called *student* that has three columns (id, firstname, age), id will be auto_increment
   a. Open a mysql console
   b. When you login to mysql you are not in any particular database to see the databases use the command

```
show databases;
```

   c. To create a database

```
create database datarep;
```

   d. To use a database

```
use datarep
```

   e. Create the table in the database with the command

```
create table student (
    id int NOT NULL auto_increment,
    firstname varchar(100),
    age int(3),
    PRIMARY KEY(id)
    );
```

insert data

```
insert into student (firstname, age) values ('joe',56);
```

view data

```
select * from student;
```

Updata data

```
update student set firstname='mary' where id = 1;
```

Delete

```
Delete from student where id = 1;
```

Make sure you do not forget the semi colon (;) if you are stuck in the middle of a command use ctrl-c

2. Make a table called book that has 4 columns (id, title, author, price) and insert some data into it.
3. Look at the tables in phpmyadmin.