

# Lab 07.01 Databases

Using databases

## Overview

I am assuming that you have done the database module, 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. (I can not confirm this, because my machine is locked down 😞 )

## 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 wsaa;
```

- d. To use a database

```
use wsaa
```

- 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;
```

Udata 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.