# Web Technologies project support worksheet 1

1. Introduction

For your assessed coursework you are creating a dynamic website involving a songs database. This worksheet will help you create the structure of the database and to test it with some content.

1. Creating the database and credentials

Using the 34SP control panel, create a database for your project called 12345678\_music\_db, **where 12345678 is your unique student ID**. Set it up with the following credentials:

**username**: 12345678u

**password**: 12345678p

1. Creating the table structure

Next, using the GUI or SQL, create the following tables:

|  |  |
| --- | --- |
| **Table name** | **Field names** |
| songs | Song\_ID, Song\_name, Artist\_ID, Release\_date, Genre, Price |
| artist | Artist\_ID, Artist\_name, Nationality, Label |
| customers | Customer\_ID (auto-increment), First\_name, Last\_name, Email, Registration\_date |

* For the **Song\_ID** and **Artist\_ID**, you can use **varchar** or **INT**. Varchar will let you set an ID like **S0NG001**, while INT will have to be a number.
* For **Price**, use the datatype **decimal** and **length 2,2** – this allows you to add values up to 99.99 – which is quite enough for a single! When adding data, do not use the currency symbol, just write a number to 2 decimal places.

On the screen, it will look like this:



* For **customer\_ID** you must choose **INT**, because it is set as **auto-increment**. This means that the system automatically adds a number when a record is created. We need this because we are creating a function whereby customers can register on the website. They, of course, will not choose their own ID number, so the system needs to create one for them.
* Otherwise, choose the datatypes you feel are the most appropriate. Then set primary keys for all of the ID fields.

1. Inserting data

**Using PHPMyAdmin**

Using the PHPMyAdmin graphical user interface, insert a line or two of data into **Songs** to test the table.

**Using SQL**

Now using the SQL structure below, insert another line of test data:

INSERT INTO songs

(Song\_ID, Song\_Name, Artist\_ID, Release\_date, Genre, Price)

VALUES (2, 'Test', 5, 2011-05-12,'Pop', 1.20);

You will be creating and entering most your data using an Excel and CSV files (see project support worksheet 2). However, the above techniques are useful

* when making small additions to your database
* the SQL code, combined with PHP and an HTML form, enables you to add data from the front of a website