**Web Development: Dynamically Generated Content**

**Exercise 1 – MySQL refresher, creating tables**

Startup XAMPP and get Apache and MySQL running.

Go to PHPMyAdmin and create a new database called **Perfecto**

Create the following 3 table structures:

\*\**Remember the rules – no spaces in filenames, field names or folder names\*\**

Add the data to the products and supplier tables

**Perfecto Sculptures Database requirements**

**A Product table to hold the following information:**

Product Reference – *Primary Key*

Product Name

Description

Category

Price

Product Image Path

Supplier ID – *Foreign key*

**A Supplier table to hold the following information:**

Supplier ID – *Primary key*

Suppler Name

Phone number

Email

Website

**An Admin table:**

Admin ID – *Primary Key*

First name

Last name

Username

### Password

**Product information**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Name** | **Description** | **Category** | **Price** | **Product Image Path** | **Supplier ID** |
| 1 | Horse | Glass Horse | Interior | 24.95 | images/sculpt/image.jpg | S001 |
| 2 | Elephant | Bronze Elephant | Exterior | 639.95 | images/sculpt/image1.jpg | S002 |
| 3 | Dolphins | Glass Dolphins | Interior | 125.00 | images/sculpt/image2.jpg | S001 |
| 4 | Tiger | Stone Tiger | Exterior | 229.95 | images/sculpt/image3.jpg | S002 |
| 5 | Eagle | Wooden Eagle | Exterior | 139.95 | images/sculpt/image4.jpg | S002 |
| 6 | Giraffe | Glass Giraffe | Interior | 39.95 | images/sculpt/image5.jpg | S001 |
| 7 | Panda | Glass Panda | Interior | 29.95 | images/sculpt/image6.jpg | S001 |
| 8 | Polar Bear | Bronze Polar Bear | Interior | 38.00 | images/sculpt/image7.jpg | S001 |
| 9 | Bee | Bronze Bee | Interior | 28.00 | images/sculpt/image8.jpg | S001 |
| 10 | Lioness | Stone Lioness | Exterior | 48.00 | images/sculpt/image9.jpg | S002 |

**Supplier information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Supplier ID** | **Supplier name** | **Phone number** | **Email** | **Website** |
| S001 | Indoor Sculptures Ltd | 0121012111 | orders@indoorsculptures.com | indoorsculptures.com |
| S002 | Outdoor Ornaments Ltd | 0321322110 | orders@outdoorornaments.com | outdoorornaments.com |

**Exercise 2 – MySQL refresher, select queries**

Using SQL Select statements, carry out the following queries.

Record the correct query and your result:

*Once you run the query, click print and you’ll see both the query and result which can then be screenshot and added to the table as shown in the first example:*

|  |
| --- |
| Test query |

|  |
| --- |
| 1. Select all the products and all the fields |
| 1. Select the name, description and price of all products |
| 1. Select all details of all products that are in the exterior category |
| 1. Select details of all suppliers |
| 1. Select all details of all products that are less than £100.00 |
| 1. Select all bronze products that are in the exterior category |
| 1. Select all product information and the name and email address of the supplier   [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) producttable.ProductRef, producttable.ProductName, producttable.Description, producttable.Category, producttable.Price, producttable.ProductImg, suppliertable.SupplierName, suppliertable.Email FROM `suppliertable` INNER JOIN `producttable` ON suppliertable.SupplierID = producttable.SupplierID ORDER BY ProductRef; |
| 1. Select the product name and supplier name of all products that are made of glass   [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) producttable.ProductName, suppliertable.SupplierName FROM `producttable` INNER JOIN `suppliertable` ON producttable.SupplierID = suppliertable.SupplierID WHERE producttable.Description [LIKE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "Glass%"; |

Once complete, save this document as **YourName SQL1** and upload to Moodle