**My SQL Syllabus**

**Getting started**

Welcome

What you need

**Database** **basics**

What is a database?

RDBMSs

Tables and Data

**SQL** **Basics**

Finding your way about

Creating a database

Creating a tables

Column Types-String pt.1

Column Types-String pt.2

Column Types-Numeric pt.1

Column Types-Numeric pt.2

Retrieving Data with search criteria

Changing Existing Data

Altering A Tables

Keys and indexes

Basics Syntax Recap

**Operation** **in** **MySQL**

Arithmetic operators

Numeric Comparison operators

String comparison operators

Logical Operators

Bitwise operators

Regular Expressions

Operators Syntax Recap

**Querying your Data**

Sorting Retrieved Data

Specifying Numbers of Results

Joining Tables

More on joining tables

**More on Joining Tables**

Data Aggregation

Queries syntax Recap

More complex SQL

Using Default data

Date and Time 1

Date and Time 2

ENUM column type

SET column

Using variables

Conditional: IF()

Complex Syntax Recap

**Good** **Practice**

Using SQL batch files

Data modeling

Normalization

Optimizations

**Security**

Users and privileges

More about users and privileges

The mysql Database

Encryption

Security syntax Recap

**Building** **A** **database** **Application**

Planning the Structure

Designing the Database

Creating the Database

Logging in and out

Checking video in and out

Searching for a video

Adding a new title

Signing up A new customer

Hiring and Firing Employees

Listing Debtor