## Start-up document for the SQL exercise

This handout is will show you how to load data into your SQL tables. <u>To use this handout you must</u> also have access to the **myscript** text file that contains the SQL code.

As you can see from the first screenshot below, I have only one file (myscript) in my week06 folder. Make sure that the myscript file in the folder from where you start mysql. The command to start mysql is

```
mysql –u root -p
```

The –u option is followed by a space followed by the name of the user (in this case root). The –p option followed by nothing tells the command line interpreter that the user is going to provide the password (see below).



```
🔞 🖨 🗊 drk@drk-vb: ~/python/week06
drk@drk-vb:~/python/week06$ ls -l
total 4
-rw-rw-r-- 1 drk drk 2876 Oct 1 11:38 myscript
drk@drk-vb:~/python/week06$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \q.
Your MySQL connection id is 39
Server version: 5.5.38-Oubuntu0.14.04.1 (Ubuntu)
Copyright (c) 2000, 2014, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
                                   Type out this command
mysql> source myscript
                                   source myscript and press <enter>
```

```
🔞 🖨 📵 drk@drk-vb: ~/python/week06
Query OK, 1 row affected (0.01 sec)
Query OK, 0 rows affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Ouery OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Ouery OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.00 sec)
                                             Assume that all goes well,
Query OK, 1 row affected (0.01 sec)
                                             you should see this screen
                                             at the end of the
Ouery OK, 1 row affected (0.00 sec)
                                             execution of the script.
Query OK, 1 row affected (0.01 sec)
Ouery OK, 1 row affected (0.00 sec)
mysql>
```

The contents of the myscript file are shown below. You can edit that file and check the statements out on your own.

```
DROP DATABASE IF EXISTS classwork; 

the database called classwork it wish

CREATE DATABASE classwork; 

create a database called classwork it wish

a database classwork.
SHOW DATABASES;
USE classwork; - In the describe database for subsequent commands
SHOW TABLES; ( There shouldn't be any tables - we just created the database
                            - create the Student take
CREATE TABLE Student (
  stuId CHAR(6),
  lastName CHAR(20) NOT NULL,
  firstName CHAR(20) NOT NULL,
  major CHAR(10),
  credits SMALLINT DEFAULT 0,
  CONSTRAINT Student_stuId_pk PRIMARY KEY (stuId),
  CONSTRAINT Student_credits_cc CHECK ((CREDITS>=0) AND (credits < 150))</pre>
);
INSERT INTO Student VALUES ("S1001", "Smith", ."Tom", "History", 90);
INSERT INTO Student VALUES ("S1002", "Chin", "Ann", "Math", 36);
INSERT INTO Student VALUES ("S1005", "Lee", "Perry", "History", 3);
INSERT INTO Student VALUES ("S1010", "Burns", "Edward", "Art", 63);
INSERT INTO Student VALUES ("S1013", "McCarthy", "Owen", "Math", 0);
```

```
INSERT INTO Student VALUES ("S1015", "Jones", "Mary", "Math", 42);
INSERT INTO Student VALUES ("S1020", "Rivera", "Jane", "CSC", 15);
CREATE TABLE Faculty ( - Great the Faculty talk
 facId CHAR(6),
  name CHAR(20) NOT NULL,
  department CHAR(20) NOT NULL,
 rank CHAR(10),
                                                               populate the Faculty table
  CONSTRAINT Faculty facid pk PRIMARY KEY (facid)
);
INSERT INTO Faculty VALUES ("F101", "Adams", "Art", "Professor");
INSERT INTO Faculty VALUES ("F105", "Tanaka", "CSC", "Instructor");
INSERT INTO Faculty VALUES ("F110", "Byrne", "Math", "Assistant");
INSERT INTO Faculty VALUES ("F115", "Smith", "History", "Associate");
INSERT INTO Faculty VALUES ("F221", "Smith", "CSC", "Professor");
CREATE TABLE Class ( Creat the Class talle
 classNumber CHAR(8),
 facId CHAR(6) NOT NULL,
 schedule CHAR(8),
 room CHAR(6),
  CONSTRAINT Class_classNumber_pk PRIMARY KEY (classNumber),
  CONSTRAINT Class_facId_fk FOREIGN KEY (facId) REFERENCES Faculty (facId) ON
DELETE NO ACTION
                                                               populate the "); Class table
);
INSERT INTO Class VALUES ("ART103A", "F101", "MWF9", "H221");
INSERT INTO Class VALUES ("CSC201A", "F105", "TuThF10", "M110");
INSERT INTO Class VALUES ("CSC203A", "F105", "MThF12", "M110"); INSERT INTO Class VALUES ("HST205A", "F115", "MWF11", "H221");
INSERT INTO Class VALUES ("MTH101B", "F110", "MTuTh9", "H225");
INSERT INTO Class VALUES ("MTH103C", "F110", "MWF11", "H225");
CREATE TABLE Enroll ( Creat the Enroll table
  classNumber CHAR(8),
  stuId CHAR(6),
  grade CHAR(2),
  CONSTRAINT Enroll classNumber stuId pk PRIMARY KEY (classNumber, stuId),
  CONSTRAINT Enroll classNumber fk FOREIGN KEY (classNumber) REFERENCES Class
(classNumber) ON DELETE NO ACTION,
 CONSTRAINT Enroll stuId fk FOREIGN KEY (stuId) REFERENCES Student (stuId) ON
DELETE CASCADE
);
                                                         propulate the
INSERT INTO Enroll VALUES ("ART103A", "S1001", "A");
INSERT INTO Enroll VALUES ("HST205A", "S1001", "C");
INSERT INTO Enroll VALUES ("ART103A", "S1002", "D");
INSERT INTO Enroll VALUES ("CSC201A", "S1002", "F");
INSERT INTO Enroll VALUES ("MTH103C", "S1002", "B");
INSERT INTO Enroll VALUES ("ART103A", "S1010", NULL);
INSERT INTO Enroll VALUES ("MTH103C", "S1010", NULL);
INSERT INTO Enroll VALUES ("CSC201A", "S1020", "B");
INSERT INTO Enroll VALUES ("MTH101B", "S1020", "A");
```