

Applied Databases

Topic 9 Exercise Sheet

Import *hospital.sql* to MySQL and write a Python program that has a menu with 2 options:

1. Allows a user to enter new details of a patient on the console and then adds them to the *patient_table* in the *hospital* database.

For example, the following data entered would be added to the database:

```
PPSN: 123N
fName: Tom
Surname: Murphy
Address: Galway
Doctor ID: 100
```

However, if the user enters a non-existent DoctorID, or existing PPSN he/she should be informed:

```
PPSN: 989333F
fName: Bill
Surname: Jones
Address: Mayo
Doctor ID: 100
Existing PPSN, or non-existent DoctorID entered
```

```
PPSN: 9898N
fName: Tom
Surname: Smith
Address: Galway
Doctor ID: 999
Existing PPSN, or non-existent DoctorID entered
```

And if the user enters an invalid value i.e., not an integer for DoctorID, he/she should also be informed of this:

```
PPSN: 555N
fName: Mary
Surname: Flynn
Address: Galway
Doctor ID: asdf
Invalid value entered for DoctorID
```

2. Allows a user to enter a partial surname then finds all patients with that string in their surnames and returns their PPSN, first_name, surname and doctor's name.

```
Surname: m
123N : Tom : Murphy : Dr. Jones
7629913X : John : Smyth : Dr. Jones
989333F : Alan : Mulligan : Dr. Murphy
```