**Module 1 Assignment 1 Plan**

CREATE database health\_data

Link to git

Build tables

Include:

Foreign keys, import in order: hospital, doctors, patients, prescriptions to avoid issues with linking FK

Include PK and FK, make sure they aren’t NULL

IMPORT data and rename columns as follows:

Hospitals:

name -> hospital\_name

Address -> Hospital address

Doctors:

Person\_id -> doctor\_id

name -> doctor\_name

Patients:

person\_id -> patient\_id

name -> patient\_name

Prescriptions

no change

Will need to store temporary column names to change column names on import.

CREATE TABLE hospitals

Assign data types, Primary and foreign keys, see ERD

LOAD DATA '/home/ubuntu/Module1\_Assignment1/hospitals.csv'

INTO TABLE hospitals

CREATE TABLE doctors

Assign data types, Primary and foreign keys, see ERD

LOAD DATA '/home/ubuntu/Module1\_Assignment1/doctors.csv'

INTO TABLE doctors

CREATE TABLE patients

Assign data types, Primary and foreign keys, see ERD

LOAD DATA '/home/ubuntu/Module1\_Assignment1/patients.csv'

INTO TABLE patients

CREATE TABLE prescriptions

Assign data types, Primary and foreign keys, see ERD

LOAD DATA '/home/ubuntu/Module1\_Assignment1/prescriptions.csv'

INTO TABLE prescriptions

**Questions**

**1) Print a list of all doctors based at a particular hospital**

BEGIN

Using doctors table

WHERE hospital\_id = 5

OUTPUT doctor\_id and doctor\_name

END

**2) Print a list of all prescriptions for a particular patient, ordered by the prescription date**

BEGIN

Using prescriptions table

WHERE patient\_id = 370

Order output by prescription\_date

OUTPUT prescription\_id, medication and prescription\_date

END

**3) Print a list of all prescriptions that a particular doctor has prescribed**

BEGIN

Using prescriptions table

WHERE doctor\_id = 68

OUTPUT prescription\_id, medication and prescription\_date

END

**4) Add a new patient to the database, including being registered with one of the doctors**

BEGIN

INSERT INTO patients (patient\_name, date\_of\_birth, address, role, doctor\_id)

With the following VALUES('Jess Denning', '1990-07-10','123 Address St, Bristol','Patient',68)

END

**5) Identify which doctor has made the most prescriptions**

BEGIN

Doctors table contains doctor\_id (PK) and doctor\_name

Prescriptions table contains doctor\_id (FK), prescription\_id (PK)

Use inner join to connect the tables on doctor\_id

Group results by doctor\_id, doctor\_name

Count prescriptions\_id and store result as rx\_count

Group counted data by doctor\_id, doctor\_name

Order the results in descending order

OUTPUT ordered results

END

**6) Print a list of all doctors at the hospital with biggest size (number of beds)**

Doctors table contains doctor\_id, doctor\_name

Hospitals table contains hospital\_name, hospitals.size

Use inner join to connect the tables on hospital\_id

Filter results on doctors at the biggest hospitals

OUTPUT doctors at biggest hospitals

END