Question 4: (12 Marks)

Given the following schema:

Doctor(<u>DId</u>, Dname, Specialty)
Patient(<u>Pid</u>, Pname, Age, Weight)
Diagnose(<u>PId</u>, <u>DId</u>, date, description)
Prescription(<u>PId</u>, <u>MId</u>, date, comment)
Medicine(<u>Mid</u>, MName, type)

Write down the following queries in SOL:

1. List the doctors who are specialist in Diabetes.

2. List the patients of Dr. Mshari

3. Retrieve the patients who were diagnosed by Dr. Mshari and Dr. Ghamdi

select Pramo

From Patient P inner join Diagnose

on P.PId = Diagnose. PId

inner join Doctor on Doctor. DId = Diagnose. DId

where Dname like "% Mobari"

Intersect

select Pname

From Patient P inner join Diagnose

on P.PId = Diagnose. PId

inner join Doctor on Doctor. DId = Diagnose. DId

where Dname like "% Gamdi %"

4. Retrieve all the medicine that were taken by "Fadh Zahrani" before 10/4/2016 and prescribed before 1/4/2016

Select MName

from Medicinem inner join Prescription Pre

on m.mId = Pre.MId inner join Patient Pon P.PIJ = Pre.PId

where Prane like "% Fadh % Zahani %"

and date < "1/4/2016"

6. List for each specialty and for each doctor the number of patient who were diagnosed.

Select specialty, Dname, Count (*)

Patients

from Doctor Dinner join Diagnose dia diagnose
on D.DId = dia.DId

group by Specialty, Dname

5. Retrieve the number of patients who were diagnosed by Dr. Mshari before the 10/5/2016

Select count(*)

from Docker D inner join Diagnose Dia on D.DId = Pia. Pld

where Dname like "% mshari%"

and Date < "10/5/2016"