Use the Create View statement to create the following views:

1. TopDoctor- This view returns the First Name, Last Name and Date of Joining

of those doctors who have made more than 5 Class 1 patients and over 10

Class 2 patients.

CREATE VIEW TopDoctor as

SELECT P.FName,P.LName,E.Start\_Date ,Doc\_ID

 FROM Person as P,Employee E, Doctor D

WHERE E.Person\_ID =P.Person\_ID and D.Employee\_Num = E.Employee\_Num and E.Employee\_Num in

(

(SELECT count(\*)

FROM class \_1\_patient as c1p,

GROUP BY c1p.Employee\_Num

HAVING COUNT(\*) > 5)

and

(SELECT count(\*)

FROM Class\_2\_Patient as c2p

GROUP BY c2p.Employee\_Num

HAVING COUNT(\*)>10)

);

2 TopTreatment- This view returns the treatment name of the most common

treatment in Dallas Care along with the bill payment amount when a person

receives that treatment.

CREATE VIEW TopTreatment as

SELECT T.name, T.T\_ID

FROM Treatment T,Payment P,

WHERE P.T\_ID=T.T\_ID and T.T\_ID exist

(SELECT P.T\_ID ,max(count(\*))

FROM Payment P

GROUP BY P.T\_ID

)

3 ReorderMeds- This view returns the medicines that need to be reordered. A

medicine needs to be reordered if the expiration date is 1 month FROM current

date or quantity is less than 1000.

CREATE VIEW ReorderMeds as

SELECT Medicine\_Code

FROM Pharmacy

WHERE ((to\_char(sysdate,'mm') - (to\_char(P\_Expirection\_Date,'mm')))<=1 or (P\_Quantity<1000)

4. PotentialPatient- This view returns the name, phone number and ID of patients who visited the hospital more than 3 times as a Class 1 patient but has not been admitted yet.

CREATE VIEW PotentialPatient as

SELECT F\_name, L\_name, Phone\_Number,Patient\_ID,Person\_ID

FROM Record r, Person p,Class\_1\_Patient c1p

WHERE r.Patient\_ID =c1p.Patient\_ID and c1p.person\_ID =p.Person\_ID and c1p.class\_2\_ID = Null and p.Patient\_ID in

(

SELECT r.patient\_ID,count(\*)

Form Record

GROUP BY r.patient\_ID

HAVING COUNT(\*) >3

)

5. MostFrequentIssues - This view returns the maximum frequency of the reason that patients visit the hospital for and the associated treatment for the same. For example, if patients visit the hospital mostly complaining about heart issues then what are the treatment associated with heart issues.

CREATE VIEW PotentialPatient as

View5:

CREATE VIEW FrequentIssues AS

SELECT T.T\_Name ,count(\*)

FROM Treatment T

GROUP BY distinct T.T\_name

order by count(\*) desc

limit 1

f. Answer the following Queries. Feel free to use any of the views that you created in

part (e.):

1. For each Doctor class, list the start date and specialization of the doctor.

SELECT E.start\_date,D.type

FROM Doctor D,Employee E

WHERE D.Employee\_Num = E.Employee\_Num

2. Find the names of employees who have been admitted to the hospital within 3

months of joining.

SELECT P.F\_name ,P.L\_name

FROM Person p,Employee e

WHERE p.person\_ID = e.person\_ID and e.start\_date =(sysdate -e.start\_date)<90)

3. Find the age and class (trainee, visiting or permanent) of top 5 doctors in the hospital.

SELECT F\_name,L\_name,((to\_char(sysdate,'yyyy'))-to\_char(E.birth\_date,'yyyy'))) as age ,Doc\_type

FROM TopDoctor as T, Person P, Employee E, Doctor D

WHERE T.Doc\_ID=D.Doc\_ID

4. Find the name of medicines associated with the most common treatment in the

hospital.

SELECT ph.name

FROM Medical\_infomation me,Pharmacy as ph,TopTreatment as top

WHERE me.medicine\_code = ph.medicine\_code and top.T\_ID = me.T\_ID

5. Find all the doctors who have not had a patient in the last 5 months. (Hint:

Consider the date of payment as the day the doctor has attended a patient/been

consulted by a patient.)

SELECT F\_name ,L\_name

FROM Person p ,Employee e ,Doctor d

WHERE p.Person\_ID =e.Person\_ID and d.Employee\_Num=e.Employee.Num and (D.doc\_ID ,D.Employee\_Num) in

(

SELECT d.Doc\_ID ,d.Employee\_Num,

FROM class\_2\_patient c2p, class\_1patient c1p ,payment p

WHERE c1p.class\_2\_ID=c2p.class\_2\_ID and c2p.doc\_ID=D.doc\_ID and ((to\_char(sysdate,'mm') - (to\_char(Date\_of\_admitted,'mm')))>5 and ((to\_char(sysdate,'mm') - (to\_char(payment\_date,'mm')))>5

)

6. Find the total number of patients who have paid completely using insurance

and the name of the insurance provider.

SELECT I\_Provider\_name ,count(\*)

FROM Class\_1\_Patient c1p, Class\_2\_Patient c2p,Payment p

WHERE c1p.Class\_2\_ID= c2p.Class\_2\_ID and p.Patient\_ID = c1p.Patient\_ID and p.I\_ID <> null

GROUP BY p.I\_Provider\_name

1. Find the most occupied room in the hospital and the duration of the stay.

SELECT r.Room\_ID ,r.duration

FROM Room r

WHERE duration = max(r.duration)

8. Find the year with the maximum number of patient visiting the hospital and

the reason for their visit.

SELECT r.Record\_Description, to\_char(Visit\_Date,'yyyy') as year

FROM Records r

WHERE year in

(

SELECT year ,r.Patient\_ID, max(count(\*))

FROM Records r

GROUP BY r.Patient\_ID

)

9 Find the duration of the treatment that is provided the least to patients.

SELECT Name

FROM TREATEMENT

WHERE duration=

(

SELECT Min(Duration)

FROM TREATEMENT

)

10. List the total number of patients that have been admitted to the hospital after

the most current employee has joined.

SELECT COUNT(C.Class\_2\_ID) as COUNTNUMBER

FROM Class\_2\_Patient C

WHERE C.Date\_Of\_Admitted>(

SELECT MAX(Start\_date)

FROM DOCTOR,EMPLOYEE

WHERE DOCTOR.Employee\_Num=EMPLOYEE.Employee\_Num

)

11. List all the patient records of those who have been admitted to the hospital

within a week of being consulted by a doctor.

SELECT DISTINCT t3.\*

FROM Class\_1\_Patient t1 LEFT JOIN Class\_2\_Patient t2 on t2.Class\_2\_ID=t1.Class\_2\_ID

LEFT JOIN RECORDS t3 on t1.Patient\_ID=t3.Patient\_ID

WHERE (to\_char(t2.Date\_Of\_admitted,'yyyymmdd') - (to\_char(t3.Visit\_Date,'yyyymmdd'))<7

1. Find the total amount paid by patients for each month in the year 2017.

SELECT sum(Total\_Amount\_Due)

FROM Payment

WHERE Payment\_Date = to\_char(Payment\_Date,'2017')

GROUP BY (Payment\_ID)

13. Find the name of the doctors of patients who have visited the hospital only

once for consultation and have not been admitted to the hospital.

SELECT F\_name,L\_name

FROM Person p,Doctor d, Class\_1\_Patient as c1p, Employee e

WHERE p.person\_id =e.person\_id and e.Employee\_Num = d.Employee\_Num and c1p.Doc\_ID =d.Doc\_ID and c1p.Class\_2\_ID = null and (c1p.Patient\_ID) exist

(

SELECT r.Patient\_ID,count(Visit\_Date)

FROM Records r

WHERE count(Visit\_Date)=1

GROUP BY r.patient\_id

)

14. Find the name and age of the potential patients in the hospital.

SELECT F\_name, L\_name,,((to\_char(sysdate,'yyyy'))-to\_char(E.birth\_date,'yyyy'))) as age

FROM PotentialPatient po,Person p

WHERE po.Person\_ID= p.Person\_ID