

IT252 Assignment-5

NAME: SUYASH CHINTAWAR

ROLL NO.: 191IT109

TOPIC: SQL QUERIES 2

OUTPUT SCREENSHOTS

- 1) Write a query in SQL to obtain the name of the physician and the departments they are affiliated with.

```
mysql> select p.name as Physician,d.name as Department from Affiliated_With aw inner join PhysicianE as p
-> on p.EmployeeID=aw.Physician inner join Department d on d.DepartmentID=aw.Department;
+-----+-----+
| Physician | Department |
+-----+-----+
| John Dorian | General Medicine |
| Elliot Reid | General Medicine |
| Christopher Turk | General Medicine |
| Percival Cox | General Medicine |
| Bob Kelso | General Medicine |
| John Wen | General Medicine |
| Keith Dudemeister | General Medicine |
| Christopher Turk | Surgery |
| Todd Quinlan | Surgery |
| John Wen | Surgery |
| Molly Clock | Psychiatry |
+-----+-----+
11 rows in set (0.00 sec)
```

- 2) Write a query in SQL to find the name of patients and their physicians who does not require any assistance of a nurse.

```
mysql> select pat.name PatientName,phy.name PhysicianName from Patient pat,PhysicianE phy, Appointment a where pat.SSN=a.Patient and a.Physician=phy.EmployeeID and a.PrepareNurse is NULL;
+-----+-----+
| PatientName | PhysicianName |
+-----+-----+
| Dennis Doe | Percival Cox |
| John Smith | Christopher Turk |
+-----+-----+
2 rows in set (0.06 sec)
```

- 3) Write a query in SQL to find the name of the patients, their treating physicians and medication.

```
Database changed
mysql> select pat.name PatientName,phy.name PhysicianName,m.name MedicationName
-> from Prescribes pres,Patient pat,PhysicianE phy,Medication m where pres.Patient=pat.SSN
-> and m.Code=pres.Medication and phy.EmployeeID=pres.Physician;
+-----+-----+-----+
| PatientName | PhysicianName | MedicationName |
+-----+-----+-----+
| John Smith | John Dorian | Procrastin-X |
| Dennis Doe | Molly Clock | Thesisin |
| Dennis Doe | Molly Clock | Thesisin |
+-----+-----+-----+
3 rows in set (0.02 sec)
```

- 4) Write a query in SQL to find the name of the patients who taken an advanced appointment, and also display their physicians and medication.

```
mysql> select pat.name PatientName,phy.name PhysicianName,m.name MedicationName from
-> Prescribes pres,Patient pat,PhysicianE phy,Medication m where pres.Patient=pat.SSN
-> and m.Code=pres.Medication and phy.EmployeeID=pres.Physician and pres.Appointment is not null;
+-----+-----+-----+
| PatientName | PhysicianName | MedicationName |
+-----+-----+-----+
| John Smith | John Dorian | Procrastin-X |
| Dennis Doe | Molly Clock | Thesisin |
+-----+-----+-----+
2 rows in set (0.01 sec)
```

- 5) Write a query in SQL to obtain the name of the patients, their block, floor, and room number where they are admitted.

```
mysql> select pat.name PatientName, s.Room RoomNo, r.BlockFloor BlockNo,r.BlockCode
-> from Patient pat,Stay s, Room r where s.Patient=pat.SSN and s.Room=r.RoomNumber;
+-----+-----+-----+-----+
| PatientName | RoomNo | BlockNo | BlockCode |
+-----+-----+-----+-----+
| John Smith | 111 | 1 | 2 |
| Random J. Patient | 123 | 1 | 3 |
| Dennis Doe | 112 | 1 | 2 |
+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

- 6) Write a query in SQL to make a report which will show - a) name of the patient, b) name of the physician who is treating him or her, c) name of the nurse who is attending him or her, d) which treatment is going on to the patient, e) the date of release, f) in which room the patient has admitted and which floor and block the room belongs to respectively.

```
mysql> select pat.name Patient,phy.name Physician,n.name Nurse,s.StayEnd ReleaseDate ,r.RoomNumber RoomNo,r.BlockFloor BlockFloor,
-> r.BlockCode from Undergoes u inner join Patient pat on pat.SSN=u.patient inner join
-> PhysicianE phy on phy.EmployeeID=u.Physician left join Nurse n on n.employeeid=u.assistingnurse inner join
-> Stay s on s.patient=u.patient inner join Room r on r.RoomNumber=s.room join Procedures pro on pro.code=u.procedures;
+-----+-----+-----+-----+-----+-----+
| Patient | Physician | Nurse | ReleaseDate | RoomNo | BlockFloor | BlockCode |
+-----+-----+-----+-----+-----+-----+
| John Smith | John Wen | Carla Espinosa | 2008-05-04 00:00:00 | 111 | 1 | 2 |
| John Smith | Christopher Turk | Carla Espinosa | 2008-05-04 00:00:00 | 111 | 1 | 2 |
| John Smith | John Wen | Carla Espinosa | 2008-05-04 00:00:00 | 111 | 1 | 2 |
| Dennis Doe | Todd Quinlan | NULL | 2008-05-03 00:00:00 | 112 | 1 | 2 |
| Dennis Doe | Christopher Turk | Paul Flowers | 2008-05-03 00:00:00 | 112 | 1 | 2 |
| Dennis Doe | Christopher Turk | Laverne Roberts | 2008-05-03 00:00:00 | 112 | 1 | 2 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

- 7) Write a query in SQL to obtain the name and position of all physicians who completed a medical procedure with certification after the date of expiration of their certificate.

```
mysql> select Name,Position from PhysicianE p where EmployeeID=any(select Physician from Undergoes u where DateUndergoes >
-> (select CertificationExpires from Trained_In t where t.Physician=u.Physician and u.Procedures=t.Treatment));
+-----+-----+
| Name      | Position                               |
+-----+-----+
| Todd Quinlan | Surgical Attending Physician |
+-----+-----+
1 row in set (0.01 sec)
```

- 8) Write a query in SQL to Obtain the names of all patients who had at least two appointment where the nurse who prepped the appointment was a registered nurse and the physician who has carried out primary care

```
mysql> select pat.Name Patient, phy.name Physician from Patient pat inner join PhysicianE phy on phy.employeeid=pat.pcp where
-> pat.SSN in (select distinct a.Patient from Appointment a inner join Nurse n on n.employeeid=a.PrepareNurse where
-> n.employeeID=any(select PrepNurse from Appointment where Patient=any( select SSN from Patient where
-> SSN=any(select Patient from Appointment group by Patient having count(*)>=2))) and n.Registered=1);
+-----+-----+
| Patient      | Physician                               |
+-----+-----+
| John Smith   | John Dorian                           |
| Grace Ritchie | Elliot Reid                           |
| Dennis Doe   | Christopher Turk                       |
+-----+-----+
3 rows in set (0.00 sec)
```

- 9) Write a query in SQL to obtain the names of all patients who has been undergone a procedure costing more than \$5000 and the name of that physician who has carried out primary care

```
mysql> select pat.name Patient,phy.name Physician,pro.cost ProcedureCost from Patient pat inner join Undergoes u
-> on u.patient=pat.ssn inner join PhysicianE phy on phy.employeeid=pat.pcp inner join Procedures pro
-> on pro.code=u.procedures where pro.cost>5000;
+-----+-----+-----+
| Patient      | Physician                               | ProcedureCost |
+-----+-----+-----+
| Dennis Doe   | Christopher Turk                       | 10000         |
| John Smith   | John Dorian                           | 5600          |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

10)Write a query in SQL to Obtain the names of all patients who has been prescribed some medication by his/her physician who has carried out primary care and the name of that physician.

```
mysql> select pat.name Patient, phy.name Physician from Patient pat,PhysicianE phy,Prescribes pres
-> where pres.patient=pat.ssn and phy.employeeid=pat.pcp and pat.pcp=pres.Physician;
+-----+-----+
| Patient | Physician |
+-----+-----+
| John Smith | John Dorian |
+-----+-----+
1 row in set (0.00 sec)
```

THANK YOU