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Hospital	db – Databases and tables

- 1. Create a database "hospital_db"
- 2. Exercise -01
 - Create tables for Physician, Department
 - Insert values into them
 - Understand Primary and Foreign Keys and table relationships
- 3. Exercise -02
 - Create tables for Affiliated_With, Procedures, Trained_In, Patient
 - Insert values into them
- 4. Exercise -03
 - Create tables for Nurse, Procedures, Appointment, Medication
 - Insert values into them
- 5. Exercise -04
 - Create tables for Prescribes, Block, Room, On_Call, Stay, Undergoes
 - Insert values into them

Putting them together:

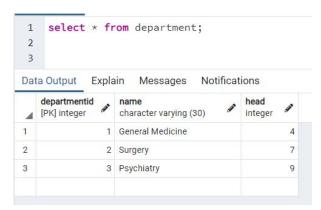
- 1. Create a new database hospital_database
- 2. Create scripts from one file
- 3. Insert data into hospital_database from one data file

Putting backup and restore:

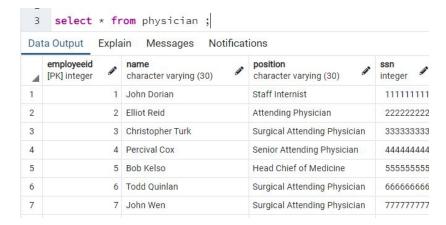
- 1. Take the back up of hospital_database
- 2. Restore it as a new database hospital_database_new

SQL Exercise

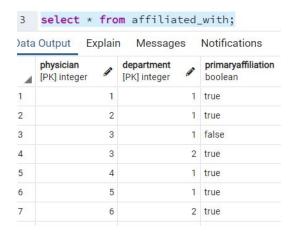
select * from department;



select * from physician;



select * from affiliated_with;



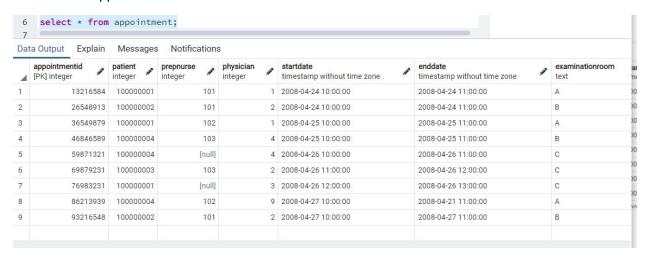
select * from patient

4 select * from patient; Data Output Explain Messages Notifications address phone insuranceid рср [PK] integer character varying (30) character varying (30) character varying (30) integer integer 42 Foobar Lane 555-0256 100000001 John Smith 68476213 1 2 37 Snafu Drive 555-0512 2 100000002 Grace Ritchie 36546321 3 100000003 Random J. Patient 101 Omgbbq Street 555-1204 65465421 2 100000004 Dennis Doe 1100 Foobaz Avenue 555-2048 68421879 3

select * from nurse;



select * from appointment



--find general medicine doctors name

select a.name, b.department, c.name from physician a
join affiliated_with b
join department c
on c.departmentid= b.department
on b.physician = a.employeeid

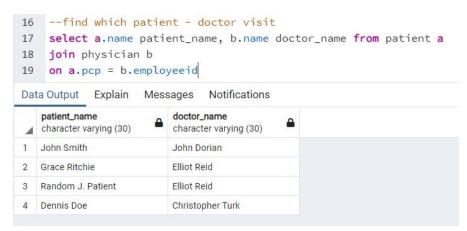
where b.department=2



--find which patient - doctor visit

select a.name patient_name, b.name doctor_name from patient a join physician b

on a.pcp = b.employeeid



--find room details

select * from room
select unavailable, count(*) from room
group by unavailable



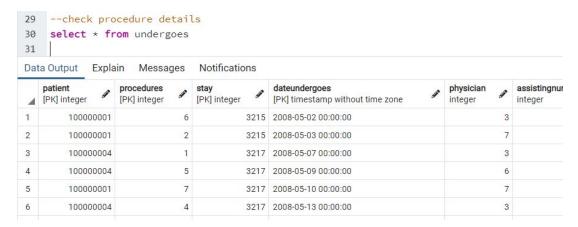
--total patient count on blockcode=2

select count(*) from room where blockcode=2



--check procedure details

select * from undergoes



-- find hospital workload such as procedure time and doctors, nurse details

select a.name as doctor_name, b.name as nurse_name, c.dateundergoes as proceduretime from physician a

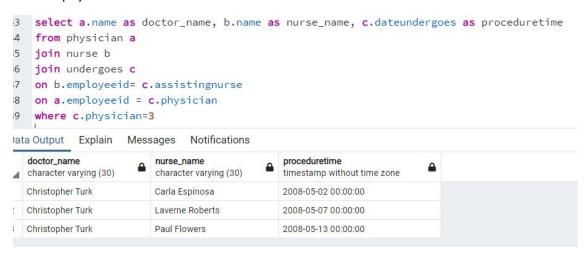
join nurse b

join undergoes c

on b.employeeid= c.assistingnurse

on a.employeeid = c.physician

where c.physician=3



--patient medication and prescription details

select * from medication;

select a.name, b.dose, c.name, c.brand from patient a

join prescribes b

join medication c

on c.code = b.medication

on a.ssn = b.patient

```
41 --patient medication and prescription details
42 select * from medication;
43 select a.name, b.dose, c.name,c.brand from patient a
44 join prescribes b
45 join medication c
46 on c.code = b.medication
47 on a.ssn = b.patient
```

4	name character varying (30)	dose character varying (30)	name character varying (30)	brand character varying (30)
1	John Smith	5	Procrastin-X	х
2	Dennis Doe	10	Thesisin	Foo Labs
3	Dennis Doe	5	Thesisin	Foo Labs

--trained in procedures

select * from procedures;

select * from trained_in;

select treatment, count(*) from trained_in group by treatment

