Name: Emile Giovannie Zounon 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

SQL Exercise

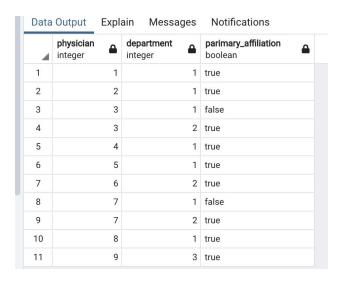
select * from department;

4	department_id [PK] integer	name character varying (30)	head integer
1	1	General Medicine	4
2	2	Surgery	7
3	3	Psychiatry	9

select * from physician ;

4	employee_id [PK] integer	first_name character varying (30)	last_name character varying (30)	position character varying (30)	
1	1	John	Dorian	Staff Internist	
2	2	Elliot	Reid	Attending Physican	
3	3 Christopher T		Turk	Surgical Attending Physican	
4	4	Percival	Cox	Senior Attending Physican	
5	5	Bob	Kelso	Head Chief of Medicine	
6	6 Todd		Quinlan	Surgical Attending Physician	
7	7 John		Wen	Surgical Attending Physician	
8	8	Keith	Dudemeister	MD Resident	
9	9	Molly	Clock	Attending Psychiatrist	

select * from affiliated_with;



select * from patient

4	patient_id [PK] integer	first_name character varying (30)	Ø,	last_name character varying (30)	Ø,	address character varying (100)	phone text	insurance_id integer	pcp integer
	1	John		Smith		42 Foobar Lane	555-0256	68476213	
	2	Grace		Ritchie		37 Snafu Drive	555-0512	36546321	
	3	Random		J. Patient		101 Omgbbq Street	555-1204	65465421	
	4	Dennis		Doe		1100 Foobaz Avenue	555-2048	68421879	;

select * from nurse;

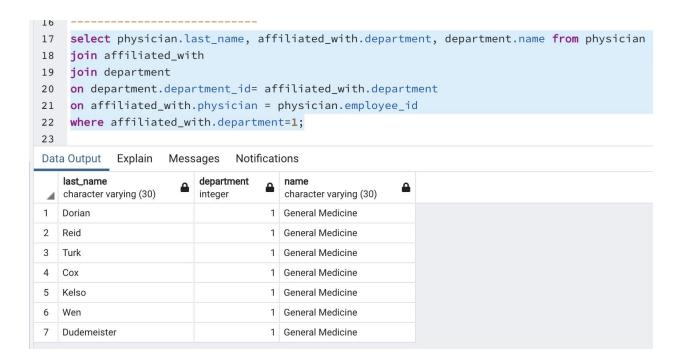
4	employee_id [PK] integer	first_name character varying (30)	last_name character varying (30)	position character varying (20)	registered boolean
1	101	Carla	Espinosa	Head Nurse	true
2	102	Laverne	Roberts	Nurse	true
3	103	Paul	Flowers	Nurse	false

select * from appointment

4	appointment_id [PK] integer	patient integer	prepnurse integer	physician integer	start_dt_time timestamp without time zone	end_dt_time timestamp without time zone	examination_room text
1	13216584	1	101	1	2008-04-24 10:00:00	2008-04-24 11:00:00	A
2	26548913	2	101	2	2008-04-24 10:00:00	2008-04-24 11:00:00	В
3	36549879	1	102	1	2008-04-25 10:00:00	2008-04-25 11:00:00	A
4	46846589	4	103	4	2008-04-25 10:00:00	2008-04-25 11:00:00	В
5	59871321	4	[null]	4	2008-04-26 10:00:00	2008-04-26 11:00:00	С
5	69879231	3	103	2	2008-04-26 11:00:00	2008-04-26 12:00:00	С
7	76983231	1	[null]	3	2008-04-26 12:00:00	2008-04-26 13:00:00	С
3	86213939	4	102	9	2008-04-27 10:00:00	2008-04-21 11:00:00	A

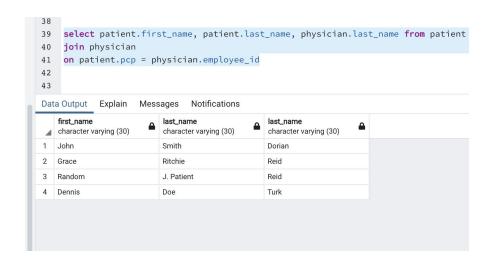
--find general medicine doctors name

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



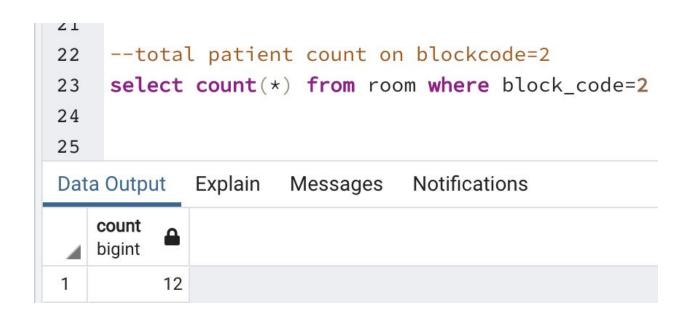
--find room details

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

at	a Output	Expla	ain M	lessa	ges	Notifications
4	unavailable boolean	<u> </u>	count bigint	•		
I	false			29		
2	true			7		

--total patient count on blockcode=2

select count(*) from room where blockcode=2



--check procedure details

select * from undergoes

24 25 26 Dat	select	procedure detai * from undergoes Explain Messages		าร		
4	patient integer	procedure_code integer	stay integer	date_time timestamp without time zone	physician integer	nurse integer
1	1	6	3215	2008-05-02 00:00:00	3	101
2	1	2	3215	2008-05-03 00:00:00	7	101
3	4	1	3217	2008-05-07 00:00:00	3	102
4	4	5	3217	2008-05-09 00:00:00	6	[null]
5	1	7	3217	2008-05-10 00:00:00	7	101
6	4	4	3217	2008-05-13 00:00:00	3	103

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

 $select\ a.name\ as\ doctor_name,\ b.name\ as\ nurse_name,\ c.dateun dergoes\ as\ procedure time$

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 priscription 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

```
58
59
    select patient.last_name, prescribes.does, medication.name, medication.brand from patient
60
   join prescribes
61
62 join medication
63 on medication.code = prescribes.medication
64
    on patient.patient_id = prescribes.patient
Data Output
           Explain Messages
                              Notifications
   last_name
                        does
                                name
                                                     brand
character varying (30)
                        text
                                                     text
                        5
                                Procrastin-X
                                                     Χ
                                Thesisin
2 Doe
                        10
                                                     Foo Labs
                        5
                                Thesisin
                                                     Foo Labs
3 Doe
```

--trained in procedures

select * from procedures;

```
--trained in procedures

select * from procedures;

select * from trained_in;

select treatment, count(*) from trained

47
```

Dat	a Output Expla	in Messages Notificat	ions
4	code [PK] integer	name character varying (30)	cost real
1	1	Reverse Rhinopodoplasty	1500
2	2	Obtuse Pyloric Recombobul	3750
3	3	Folded Demiophtalmectomy	4500
4	4	Complete Walletectomy	10000
5	5	Obfuscated Dermogastroto	4899
6	6	Reversible Pancreomyoplasty	5600
7	7	Follicular Demiectomy	25

select * from trained_in; 45 select treatment, count(*) from trained_in group by treatm 46 47 **Data Output** Explain Messages **Notifications** physician treatment certificationdate certificationexpires integer integer date date 1 3 1 2008-01-01 2008-12-31 3 2 2008-01-01 2 2008-12-31 3 3 5 2008-01-01 2008-12-31 3 4 6 2008-01-01 2008-12-31 5 3 7 2008-01-01 2008-12-31 6 6 2 2008-01-01 2008-12-31 7 5 2007-01-01 6 2007-12-31 6 2008-01-01 8 6 2008-12-31 9 7 1 2008-01-01 2008-12-31 10 7 2 2008-01-01 2008-12-31 7 3 2008-01-01 2008-12-31 11 7 4 2008-01-01 2008-12-31 12

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

select treatment, count(*) from trained_in group by treatment Messages Explain Notifications Data Output **count** bigint treatment integer