**1. List the last name, name, employee number, type of employee of all employees ordered by last**

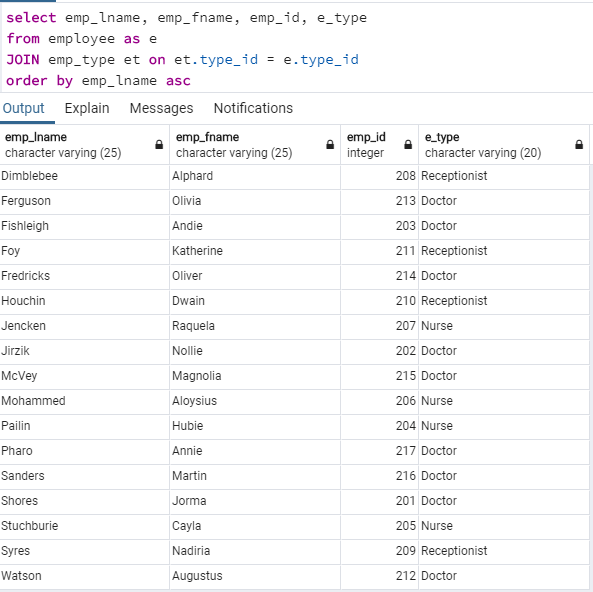
**name.**

select emp\_lname, emp\_fname, emp\_id, e\_type

from employee as e

JOIN emp\_type et on et.type\_id = e.type\_id

order by emp\_lname asc



**2. List the last name, name, employee number, type of employee of all employees ordered by last**

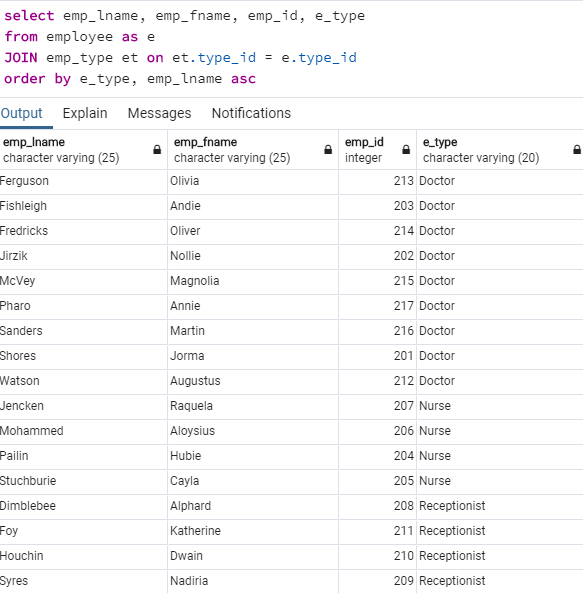
**name grouped by employee type.**

select emp\_lname, emp\_fname, emp\_id, e\_type

from employee as e

JOIN emp\_type et on et.type\_id = e.type\_id

order by e\_type, emp\_lname asc



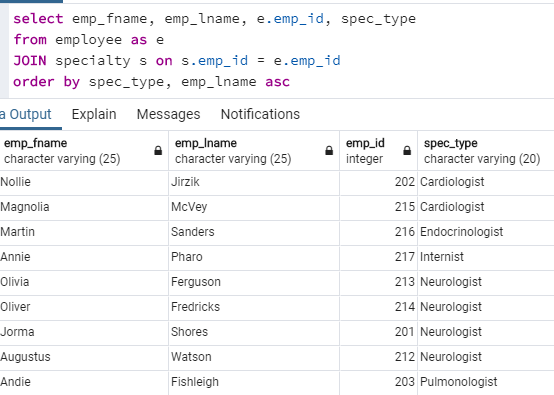
**3. List the name, last name, employee number, Specialty of doctors. Group by specialty and order by last name.**

select emp\_fname, emp\_lname, e.emp\_id, spec\_type

from employee as e

JOIN specialty s on s.emp\_id = e.emp\_id

order by spec\_type, emp\_lname asc



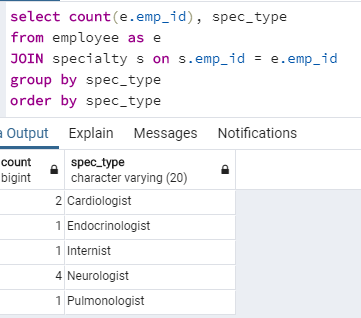
**4. List the count of doctors per specialty order the list by specialty name.**

select count(e.emp\_id), spec\_type

from employee as e

JOIN specialty s on s.emp\_id = e.emp\_id

group by spec\_type

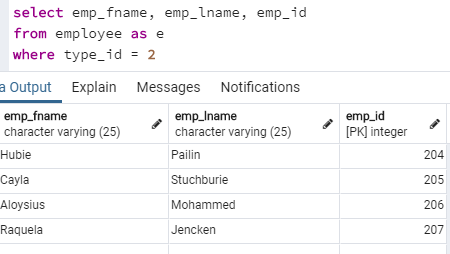
order by spec\_type

**5. List the name, last name, employee number of all the nurses.**

select emp\_fname, emp\_lname, emp\_id

from employee as e

where type\_id = 2



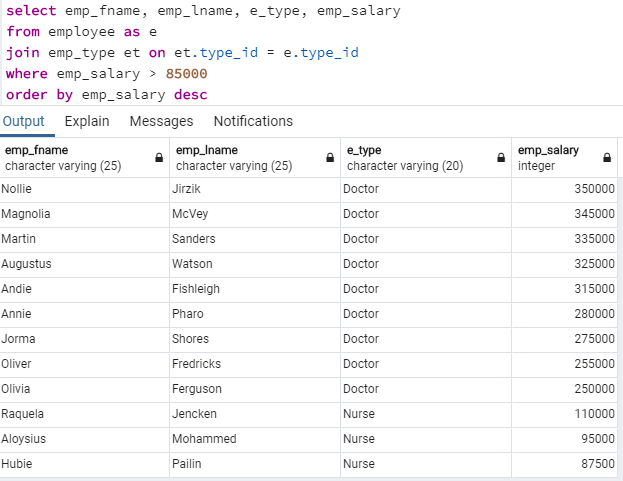
**6. List the employees name, last name, employee type, salary with salaries greater than 85K.**

select emp\_fname, emp\_lname, e\_type, emp\_salary

from employee as e

join emp\_type et on et.type\_id = e.type\_id

where emp\_salary > 85000

order by emp\_salary desc

**7. List the name, last name, sex, patient id and room number of all the patients not discharged yet and who are older than 65 years old.**

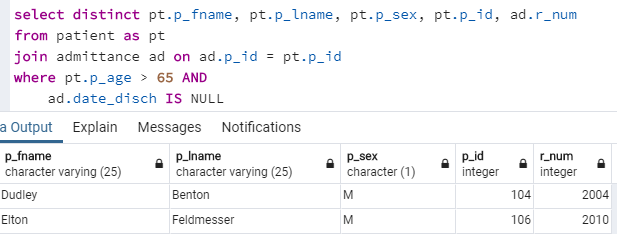
select distinct pt.p\_fname, pt.p\_lname, pt.p\_sex, pt.p\_id, ad.r\_num

from patient as pt

join admittance ad on ad.p\_id = pt.p\_id

where pt.p\_age > 65 AND

ad.date\_disch IS NULL



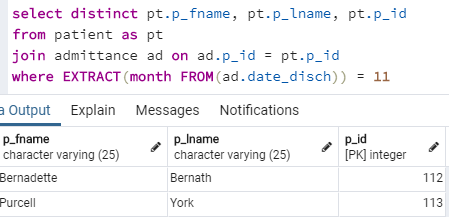
**8. List the patient name, last name, patient id of patients discharged in one specific month (specified the month based on the data you used to populate the database).**

select distinct pt.p\_fname, pt.p\_lname, pt.p\_id

from patient as pt

join admittance ad on ad.p\_id = pt.p\_id

where EXTRACT(month FROM(ad.date\_disch)) = 11



**9. List the name and last name and room number of patients admitted through the ER and already discharged**

select distinct pt.p\_fname, pt.p\_lname, ad.r\_num, ad.date\_admit, ad.date\_disch

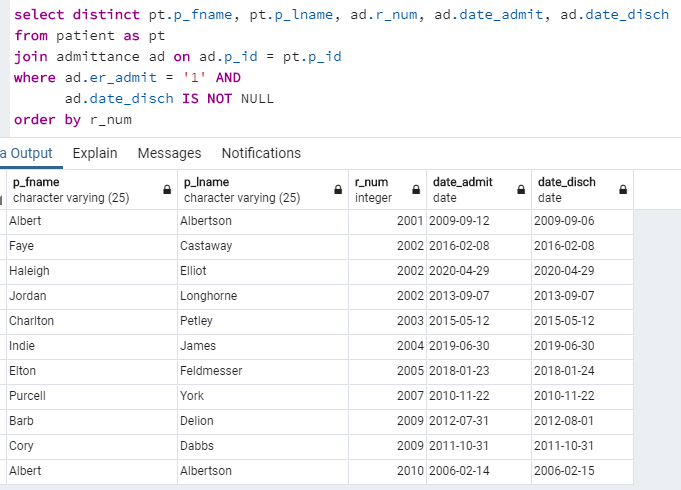
from patient as pt

join admittance ad on ad.p\_id = pt.p\_id

where ad.er\_admit = '1' AND

ad.date\_disch IS NOT NULL

order by r\_num



**10. List the name and last name, assigned room, room type and assigned nurse name and last name of patients not discharged yet.**

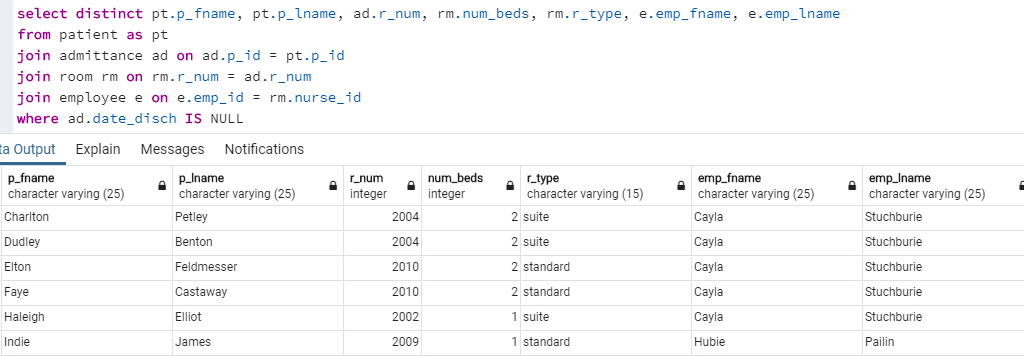
select distinct pt.p\_fname, pt.p\_lname, ad.r\_num, rm.num\_beds, rm.r\_type, e.emp\_fname, e.emp\_lname

from patient as pt

join admittance ad on ad.p\_id = pt.p\_id

join room rm on rm.r\_num = ad.r\_num

join employee e on e.emp\_id = rm.nurse\_id

where ad.date\_disch IS NULL

**11. List the nurse name, nurse last name and average patient they took care per month.**

SELECT e.emp\_fname, e.emp\_lname, CAST(AVG(tbl.count) AS DECIMAL(3,2))

FROM (select em.emp\_fname, em.emp\_lname, em.emp\_id, COUNT(ad.p\_id),

EXTRACT(monthFROM(ad.date\_admit)) as monthVal

from employee as em

join room rm on rm.nurse\_id = em.emp\_id

join admittance ad on ad.r\_num = rm.r\_num

join patient pt on pt.p\_id = ad.p\_id

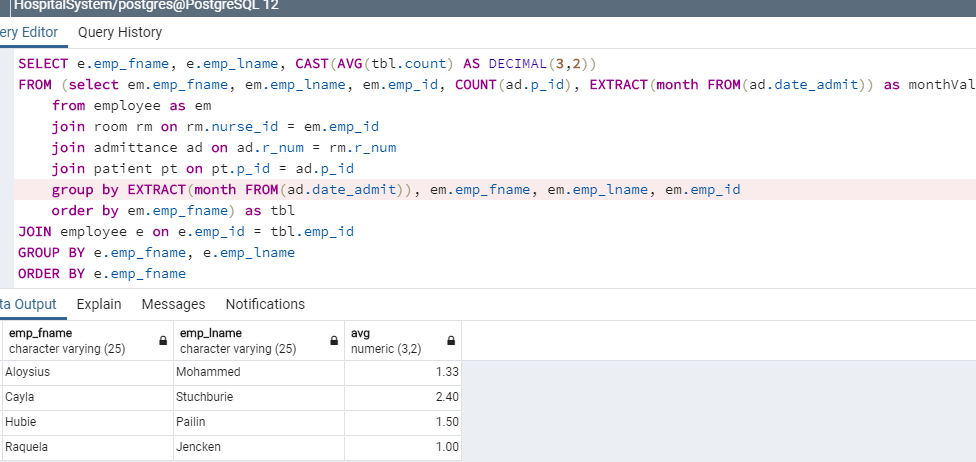
group by EXTRACT(month FROM(ad.date\_admit)), em.emp\_fname, em.emp\_lname, em.emp\_id

order by em.emp\_fname) as tbl

JOIN employee e on e.emp\_id = tbl.emp\_id

GROUP BY e.emp\_fname, e.emp\_lname

ORDER BY e.emp\_fname



**12. List the doctor name and last name and average patient attended per month for all the doctors.**

SELECT e.emp\_fname, e.emp\_lname, CAST(AVG(tbl.count) AS DECIMAL(3,2))

FROM (select em.emp\_fname, em.emp\_lname, em.emp\_id, COUNT(ad.p\_id), EXTRACT(month FROM(ad.date\_admit)) as monthVal

from employee as em

join admittance ad on ad.doctor\_id = em.emp\_id

join patient pt on pt.p\_id = ad.p\_id

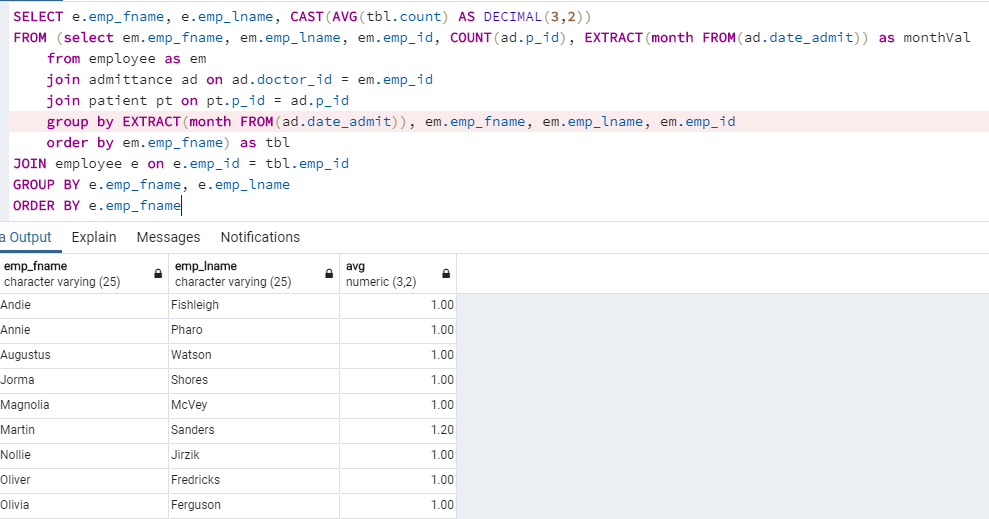
group by EXTRACT(month FROM(ad.date\_admit)), em.emp\_fname, em.emp\_lname, em.emp\_id

order by em.emp\_fname) as tbl

JOIN employee e on e.emp\_id = tbl.emp\_id

GROUP BY e.emp\_fname, e.emp\_lname

ORDER BY e.emp\_fname



**13. List the specialty and number of doctors for the specialty that has more than 3 doctors that make**

**more than 100K a year.**

select distinct sp.spec\_type

from (select s.spec\_type, COUNT(e.emp\_id) as cnt

from SPECIALTY s

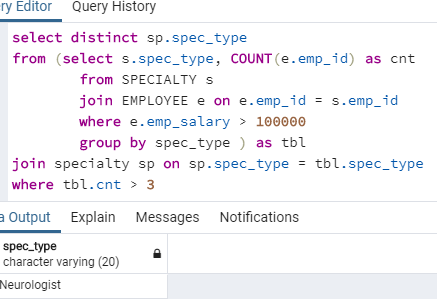
join EMPLOYEE e on e.emp\_id = s.emp\_id

where e.emp\_salary > 100000

group by spec\_type ) as tbl

join specialty sp on sp.spec\_type = tbl.spec\_type

where tbl.cnt > 3



**14. List the room number of any empty room.**

SELECT DISTINCT r.r\_num

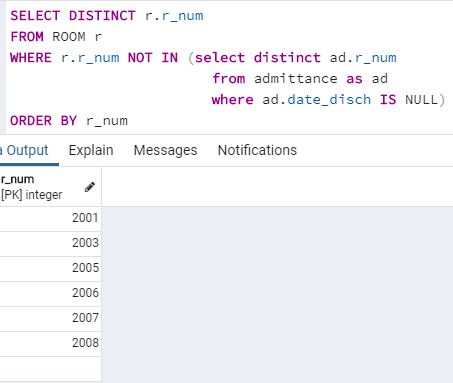
FROM ROOM r

WHERE r.r\_num NOT IN (select distinct ad.r\_num

from admittance as ad

where ad.date\_disch IS NULL)

ORDER BY r\_num



**15. List the average cost of a treatment.**

SELECT CAST(AVG(costs) AS DECIMAL(5,2)) as avgcosttreatment

FROM (select distinct mc.med\_id, mc.costs, trmt.p\_id

from MEDICINE\_COST mc

join TREATMENT trmt on trmt.med\_id = mc.med\_id AND trmt.quantity = mc.quantity) as mcs