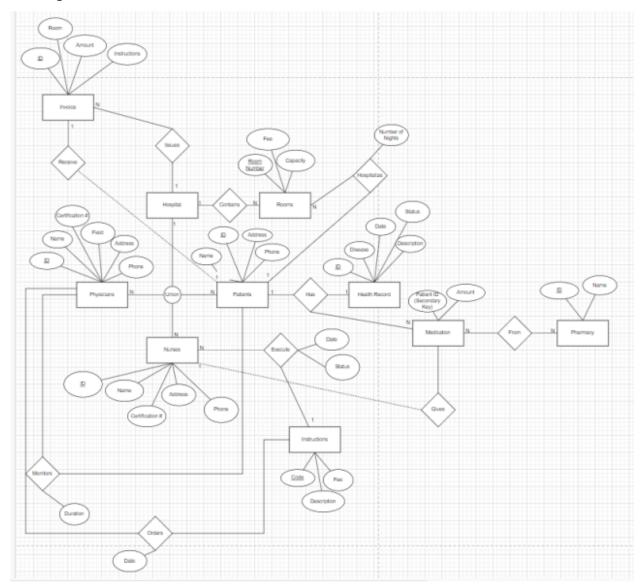
Will Colvill Final Report Hospital Database

ER Diagram:



PK: Physician(physician_id) **FK:** Instructions(physician_id)

PK: Nurse(nurse_id)
PK: Instructions(nurse_id)
PK: Nurse(nurse_id)
PK: Medication(nurse_id)
PK: Patient(patient_id)
PK: Record(patient_id)
PK: Patient(patient_id)
PK: Instructions(patient_id)
PK: Patient(patient_id)
PK: Medication(patient_id)

Tables:

Record Table

_					
	patient_id	disease	date	status	description
•	1	Limphoma	03/24/2014	Cured	Cant Breathe
	1	Coughitis	05/21/2017	Uncured	Coughing
	1	Boneitis	02/23/2012	Fixed	Broken Bones
	1	Clogged Artery	08/27/2013	Unclogged	Blocked vessel
	1	Cancer	03/24/2019	Cured	Bad Cells

Instructions Table

	instruction_id	date	physician_id	nurse_id	patient_id	status	fee	description
•	1	10-20-2019	1	2	3	Complete	100.00	Prepare for Surgery
	2	09-12-2020	2	1	2	Incomplete	500.00	Set arm in a cast
	3	01-03-2017	3	3	1	Complete	1000.00	Treat for sickness
	4	10-30-2021	4	5	4	Complete	750.00	Take Xrays
	5	06-20-2019	5	4	5	Complete	100.00	Prepare for Surgery
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Nurse Table

	nurse_id	name	certnum	address	phone
•	1	Susy Q	4732	423 Road Road	4032468756
	2	Jamie Lands	4732	143 Sesame Street	9405468756
	3	Marcus Long	4983	423 Road Road	9405890456
	4	Jerry Long	4936	933 Rocky Road	9430658409
	5	Eric Shoe	3285	333 Shot Ave	3373374895

Patient Table

	patient_id	name	address	phone
•	1	Jim Bonez	754 Mary Lane	3456758439
	2	Jake Bake	687 Drury Street	3145638756
	3	Tracy Leem	3121 Cross Road	3547654893
	4	Mark Mark	34321 Apple Ave	9874563243
	5	Jerry Jones	3465 Orchard Lane	3847594382

Payment Table

	patient_id	amount	date
•	1	1000.00	10/31/22
	2	500.00	09/22/22
	3	100.00	11/31/22
	4	750.00	04/31/22
	5	100.00	02/31/22

Physician Table

	physician_id	name	certnum	address	phone
•	1	Joe Flow	475	344 Hollow Road	3333333333
	2	Marky Mark	473	657 Road Street	4448573243
	3	Kyle Busch	453	324 Door Ave	3465432431
	4	Kim Possible	432	33 Iglue Road	4576345554
	5	Sherry Berry	321	56 Seven Street	8573924853
	NULL	NULL	NULL	NULL	NULL

Record Table

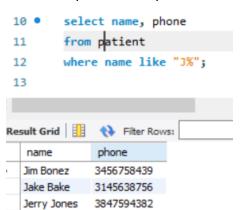
	patient_id	disease	date	status	description
•	1	Limphoma	03/24/2014	Cured	Cant Breathe
	1	Coughitis	05/21/2017	Uncured	Coughing
	1	Boneitis	02/23/2012	Fixed	Broken Bones
	1	Clogged Artery	08/27/2013	Unclogged	Blocked vessel
	1	Cancer	03/24/2019	Cured	Bad Cells

Medication Table

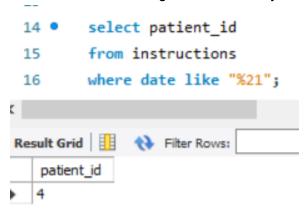
	patient_id	type	amount	nurse_id
•	1	Valium	2 pills	5
	2	Helium	1 dose	4
	3	Blue Pill	4 pills	3
	4	Water	2 Glasses	2
	5	Bandage	2 Full Wraps	1

Queries:

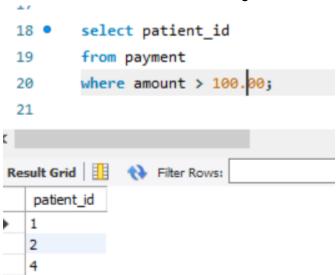
Name and phone of all patients whose name starts with J



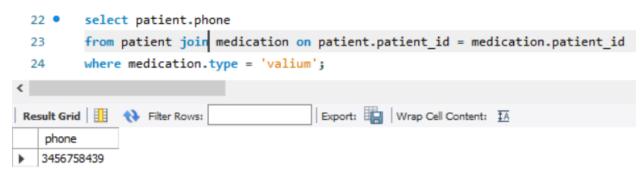
Patient id for someone given care in the year 2021



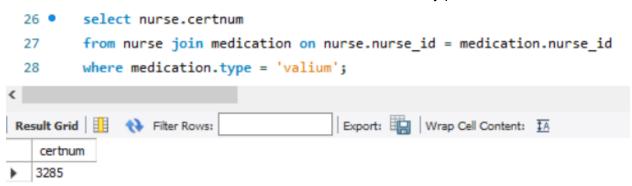
Patient id for someone who was charged over 100\$ in fees



Phone number for a patient who is perscribed Valium



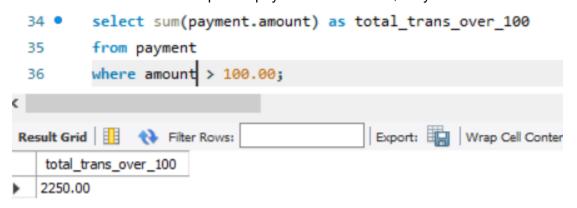
The certificate number of the nurse who administered valium to any patient.



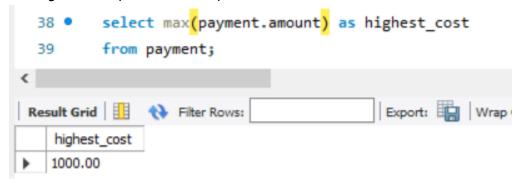
The name, address and phone of any patients who had Cancer

```
select patient.name, patient.address, patient.phone
 30 •
         from patient join record on patient.patient_id = record.patient_id
 31
 32
         where disease = 'Cancer';
 33
                                           Export: Wrap Cell Content: TA
Result Grid
              Filter Rows:
   name
             address
                          phone
            754 Mary Lane
                          3456758439
  Jim Bonez
```

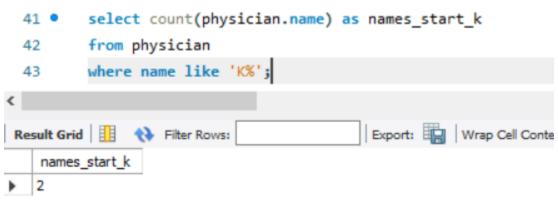
The sum of income for the hospital of payments above 100\$ only



The highest cost procedure to a patient.



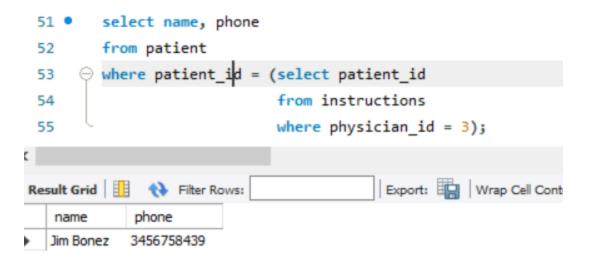
The number of doctors whose name starts with a K.



The name of the whose fee was 500.00.

```
45 •
        select name
46
        from patient
      where patient id = (select patient id
 47
                             from instructions
 48
                             where fee = 500.00);
 49
 50
                                         Export: Wrap Cell Cont
Result Grid
            Filter Rows:
   name
  Jake Bake
```

The name and phone number of a patient who was given instructions from the physician with the id number 3.



The average cost of payments from patients who were seen by physicians 3, 4, and 5.