SQL - (Data Analyst Project)

Health Case Project

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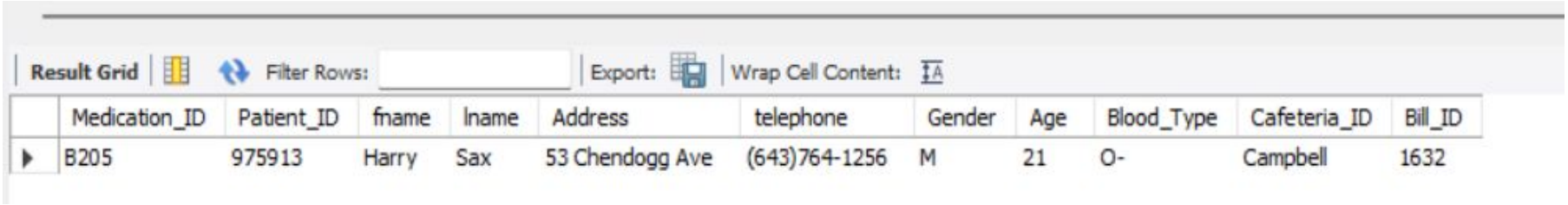
1. Find all doctors who have treated a patient for 'diabetes'.

```
select
d.Doctor_ID,fname,lname,Gender,ill
ness,Patient_ID from doctor as d

join worker as w

on d.D_Worker_ID = w.Worker_ID

join diagnosis as de

on d.Doctor_ID = de.Doctor_ID

where Illness = 'Diabetes'
```

Doctor_ID	fname	lname	Gender	illness	Patient_ID
51235	Tilda	White	F	Diabetes	193258

2. List the details of all the patients who have been prescribed "B205".

```
select md.Medication_ID,p.* from patient as p join medication_prescribed as mp
on p.Patient_ID = mp.Patient_ID
join medication as md
on mp.Medication_ID = md.Medication_ID
where md.Medication_ID = "B205"
```



Medication_ID	Patient_ID	fname	lname	Address	telephone	Gender	Age	Blood_Type	Cafeteria_ID	Bill_ID
B205	975913	Harry	Sax	53 Chendogg Ave	(643)764-1256	M	21	O-	Campbell	1632

3. Find the total number of workers in each department.

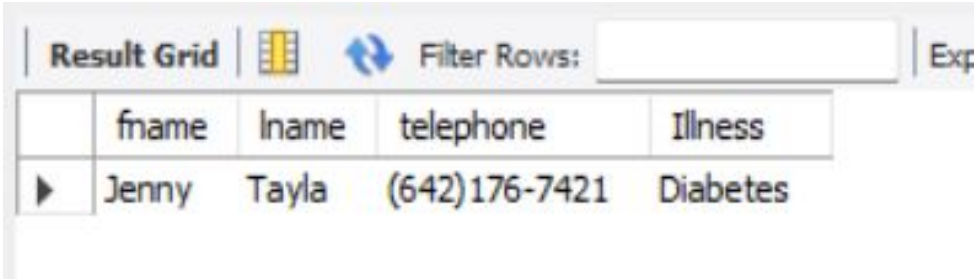
```
select count(Worker_ID) as total_workers,dp.Department_ID from worker as w
join doctor as doc
on w.Worker_ID = doc.D_Worker_ID
join department as dp
on doc.Department_ID = dp.Department_ID
group by dp.Department_ID
```

Result Grid | Filter Rows:

total_workers	Department_ID
1	Burn Center
2	ER
1	ICU
1	Pediatric
1	Pharmacy

4. Retrive the names and phone numbers of all the patients who have been diagnosed with "Diabetes" .

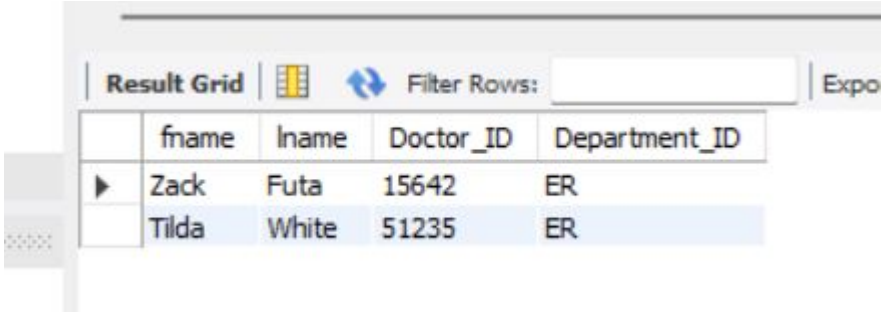
```
select fname,lname,telephone,Illness from patient as p
join diagnosis as d
on p.Patient_ID = d.Patient_ID
where Illness = 'Diabetes'
```



	fname	lname	telephone	Illness
▶	Jenny	Tayla	(642)176-7421	Diabetes

5. Get the names and ids of all the doctors who work in the "ER" department.

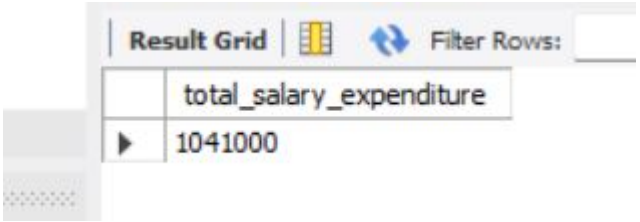
```
select fname,lname,Doctor_ID,doc.Department_ID
from worker as w
join doctor as doc
on w.Worker_ID = doc.D_Worker_ID
where doc.Department_ID = 'ER'
```



fname	lname	Doctor_ID	Department_ID
Zack	Futa	15642	ER
Tilda	White	51235	ER

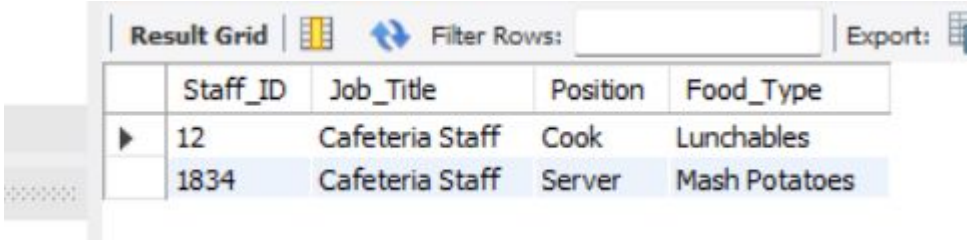
6. Find the total salary expenditure for all the workers.

```
select sum(Salary) as total_salary_expenditure from worker
```



7. List all cafeteria staff along with their job position and the food type served in their assigned cafeteria.

```
select a.Staff_ID,a.Job_Title,b.Position,c.Food_Type from staff as a
join cafeteria_staff as b
on a.Staff_ID = b.Staff_ID
join cafeteria as c
on b.Cafeteria_ID = c.Cafeteria_ID
```



Staff_ID	Job_Title	Position	Food_Type
12	Cafeteria Staff	Cook	Lunchables
1834	Cafeteria Staff	Server	Mash Potatoes

8. Show details of patients along with the medication they are prescribed ,even if no medication has been prescribed.

```
select p.*,Prescription_ID,md.* from medication_prescribed as mp
join patient as p
on mp.Patient_ID = p.Patient_ID
join medication as md
on  mp.Medication_ID = md.Medication_ID
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Patient_ID	fname	lname	Address	telephone	Gender	Age	Blood_Type	Cafeteria_ID	Bill_ID	Prescription_ID	Medication_ID	Doses	Expiration_Date
193258	Jenny	Tayla	651 Nowhre St	(642)176-7421	F	19	AB+	Dobson	1423	103	C312	12	2025-12-15
497598	Benjamin	Dover	63 Vancouver Way	(432)753-1274	M	72	B-	Wheeler	1744	104	D918	2	2024-07-04
589215	Mike	Lock	152 Main St	(135)753-2346	M	41	A+	Dobson	1537	101	A104	10	2026-05-12
589215	Mike	Lock	152 Main St	(135)753-2346	M	41	A+	Dobson	1537	105	E501	8	2025-08-29
975913	Harry	Sax	53 Chendogg Ave	(643)764-1256	M	21	O-	Campbell	1632	102	B205	5	2026-09-20

9. find the average age of patients diagnosed with "FLU"

```
select p.Patient_ID, (p.Age) as Average_Age,illness from patient as p
join diagnosis as d
on p.Patient_ID = d.Patient_ID
where Illness = 'FLU'
```

Patient_ID	Average_Age	illness
589215	41	Flu