



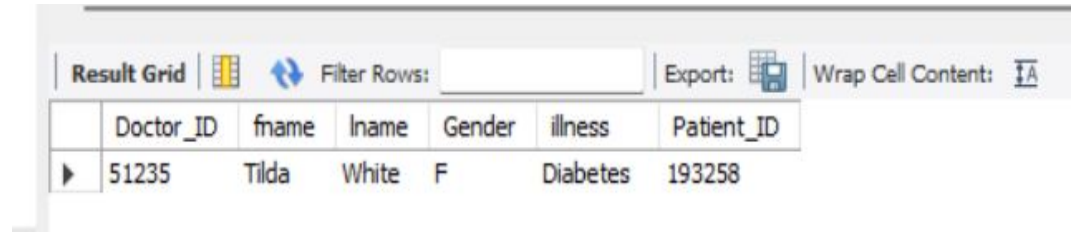
SQL - (Data Analyst Project)

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'
```





The screenshot shows a database query result grid. The grid has a toolbar at the top with options: 'Result Grid', a grid icon, 'Filter Rows:' with a dropdown, 'Export:' with a document icon, and 'Wrap Cell Content:' with a text icon. The grid itself has a header row with columns: Doctor_ID, fname, lname, Gender, illness, and Patient_ID. Below the header is a single data row with the following values: 51235, Tilda, White, F, Diabetes, and 193258.

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"
```

Result Grid											
Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 											
	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	

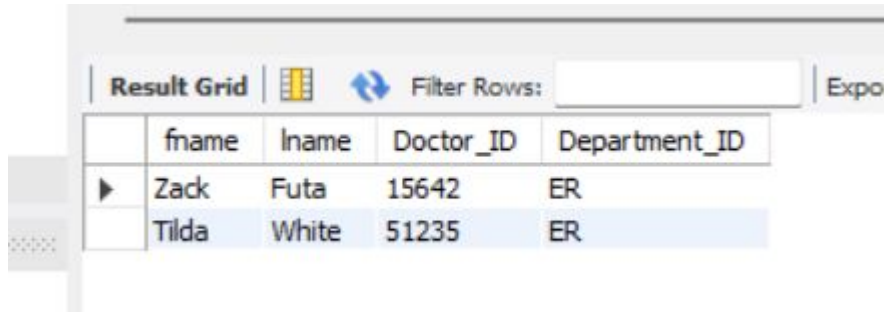
4. Retrive the names and phone numbers of all the patients who have been diagnosed with "Diabetes" .

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

Result Grid					Filter Rows:		Exp
	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'
```

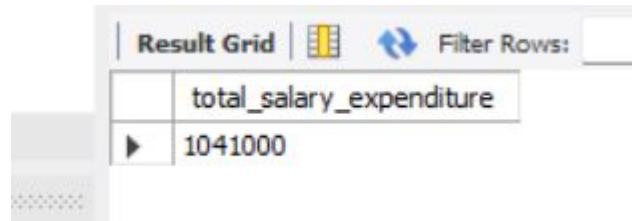


The screenshot shows a database query result grid. At the top, there is a tab labeled "Result Grid" with icons for a table, a refresh button, and a "Filter Rows:" input field. To the right of the input field is an "Expo" button. Below the header, there is a table with five columns: an empty column, "fname", "lname", "Doctor_ID", and "Department_ID". The first row contains the values "Zack", "Futa", "15642", and "ER". The second row contains the values "Tilda", "White", "51235", and "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
```

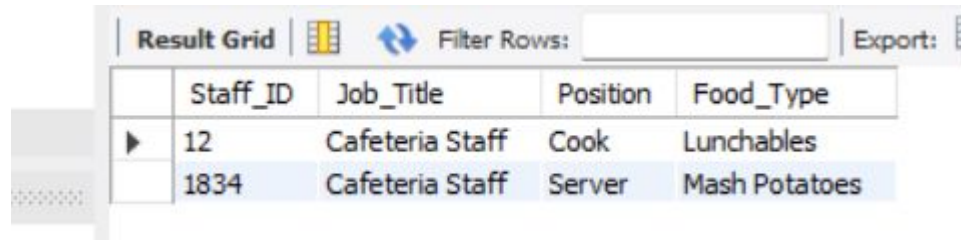


The screenshot shows a database interface with a 'Result Grid' tab. The grid contains one row with the column name 'total_salary_expenditure' and the value '1041000'. There are icons for refreshing the data and a filter row option.

Result Grid	
total_salary_expenditure	1041000

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
```



The screenshot shows a database query result grid. At the top, there is a toolbar with a 'Result Grid' label, a grid icon, a refresh icon, a 'Filter Rows:' input field, and an 'Export:' button. Below the toolbar is a table with five columns: Staff_ID, Job_Title, Position, and Food_Type. The first row shows Staff_ID 12, Cafeteria Staff, Cook, and Lunchables. The second row shows Staff_ID 1834, Cafeteria Staff, Server, and Mash Potatoes.

	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