

SQL data analysis project using Healthcare database

by Gowtham Anumakonda

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1      # 1. Find all the doctors who have treated a patient for 'Diabetes'
2
3  •   SELECT
4      d.doctor_id, fname, lname, gender, Illness, Patient_ID
5  FROM
6      doctor d
7      JOIN
8      worker w ON d.D_Worker_ID = w.Worker_ID
9      JOIN
10     diagnosis di ON di.doctor_id = d.doctor_id
11 WHERE
12     Illness = 'Diabetes'





```

Result Grid							Filter Rows:	Export:	Wrap Cell Content:
	doctor_id	fname	lname	gender	Illness	Patient_ID			
▶	51235	Tilda	White	F	Diabetes	193258			

```

1      # 2. List the details of the patients who have been prescribed 'B205'.
2
3      • SELECT
4          *
5      FROM
6          patient p
7          INNER JOIN
8          medication_prescribed mp ON p.Patient_ID = mp.Patient_ID
9          JOIN
10         medication m ON mp.Medication_ID = m.Medication_ID
11     WHERE
12         m.Medication_ID = 'B205'

```

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 														
	Patient_ID	fname	lname	Address	telephone	Gender	Age	Blood_Type	Cafeteria_ID	Bill_ID	Prescription_ID	Medication_ID	Patient_ID	Medication_
▶	975913	Harry	Sax	53 Chendogg Ave	(643)764-1256	M	21	O-	Campbell	1632	102	B205	975913	B205

```
1  # 3. Find the total number of workers in each department
2
3  •  SELECT
4      d.Department_ID, COUNT(w.Worker_id)
5  FROM
6      department d
7      JOIN
8      doctor doc ON d.Department_ID = doc.Department_ID
9      JOIN
10     worker w ON w.Worker_ID = doc.D_Worker_ID
11 GROUP BY d.Department ID
```

Result Grid			Filter Rows:	
	Department_ID	COUNT(w.Worker_id)		
▶	Burn Center	1		
	ER	2		
	ICU	1		
	Pediatric	1		
	Pharmacy	1		

```
1      # 4. Identify Patients with Prescribed Medications Expiring in 2024
2
3  ●   SELECT DISTINCT
4         P.fname, P.lname, M.Medication_ID, M.Expiration_Date
5  FROM
6         PATIENT P
7         JOIN
8         MEDICATION_PRESCRIBED MP ON P.Patient_ID = MP.Patient_ID
9         JOIN
10        MEDICATION M ON MP.Medication_ID = M.Medication_ID
11 WHERE
12        YEAR(M.Expiration_Date) = 2024;
```

Result Grid					Filter Rows:	Export:
	fname	lname	Medication_ID	Expiration_Date		
▶	Benjamin	Dover	D918	2024-07-04		

```
1      # 5. Identify the patient who has received the maximum number of different medications.
2
3  ●   SELECT
4      P.Patient_ID,
5      P.fname,
6      P.lname,
7      COUNT(DISTINCT MP.Medication_ID) AS Medication_Count
8  FROM
9      PATIENT P
10     JOIN
11     MEDICATION_PRESCRIBED MP ON P.Patient_ID = MP.Patient_ID
12  GROUP BY P.Patient_ID
13  ORDER BY Medication_Count DESC
14  LIMIT 1;
```

Result Grid



Filter Rows:


Export:


	Patient_ID	fname	lname	Medication_Count
▶	589215	Mike	Lock	2

```
1 # 6. List all cafeteria staff along with thier job position and food type served in their assigned cafeteria
2
3 • SELECT
4     cs.staff_ID, s.Job_Title, cs.Position, c.Food_type
5 FROM
6     cafeteria_staff cs
7     JOIN
8     cafeteria c ON c.Cafeteria_ID = cs.Cafeteria_ID
9     JOIN
10    staff s ON s.Staff_ID = cs.Staff_ID
```

Result Grid

  Filter Rows:

Export: 

Wrap Cell Content: 

	staff_ID	Job_Title	Position	Food_type
▶	12	Cafeteria Staff	Cook	Lunchables
	1834	Cafeteria Staff	Server	Mash Potatoes

```
1      # 7. Identify the cafeteria with the highest number of patients
2
3  •   SELECT
4         C.Cafeteria_ID, COUNT(P.Patient_ID) AS Total_Patients
5  FROM
6         CAFETERIA C
7         JOIN
8         PATIENT P ON C.Cafeteria_ID = P.Cafeteria_ID
9  GROUP BY C.Cafeteria_ID
10 ORDER BY Total_Patients DESC
11 LIMIT 1;
```

Result Grid			Filter Rows:		Export:
	Cafeteria_ID	Total_Patients			
►	Dobson	2			

