SQL data analysis project using Healthcare database

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

Result Grid						Export:	Wrap Cell Content:	<u>IA</u>
	doctor_id	fname	Iname	gender	Illness	Patient_ID		
٠	51235	Tilda	White	F	Diabetes	193258		

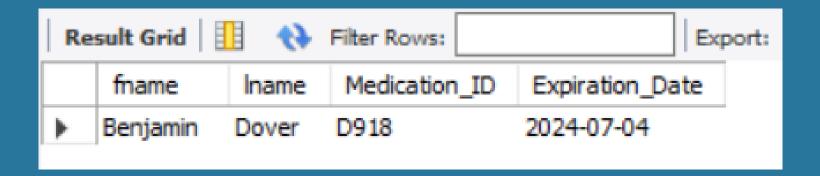
```
# 2. List the details of the patients who have been prescribed 'B205'.
1
2
 3 •
       SELECT
       FROM
5
           patient p
 6
               INNER JOIN
           medication_prescribed mp ON p.Patient_ID = mp.Patient_ID
 8
               JOIN
 9
           medication m ON mp.Medication_ID =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

Result Grid														
	Patient_ID	fname	Iname	Address	telephone	Gender	Age	Blood_Type	Cafeteria_ID	Bill_ID	Prescription_ID	Medication_ID	Patient_ID	Medication_
١	975913	Harry	Sax	53 Chendogg Ave	(643)764-1256	М	21	0-	Campbell	1632	102	B205	975913	B205

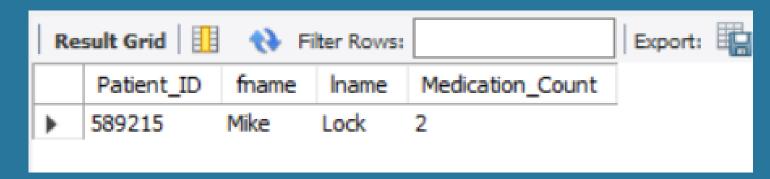
```
# 3. Find the total number of workers in each department
 3 •
       SELECT
           d.Department_ID, COUNT(w.Worker_id)
 5
       FROM
           department d
               JOIN
           doctor doc ON d.Department_ID = doc.Department_ID
 8
 9
               JOIN
           worker w ON w.Worker_ID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

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

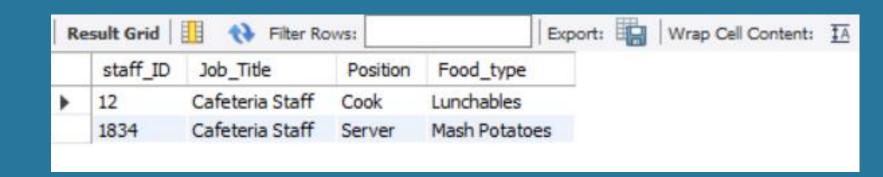
```
# 4. Identify Patients with Prescribed Medications Expiring in 2024
 2
        SELECT DISTINCT
 3 •
            P.fname, P.lname, M.Medication_ID, M.Expiration_Date
 5
        FROM
 6
            PATIENT P
                JOIN
            MEDICATION_PRESCRIBED MP ON P.Patient_ID = MP.Patient_ID
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



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



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



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

