

# Patient Health Management System

## Milestone: SQL Queries

Group: - Data Dynamos  
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**Percentage of Effort Contributed by Student1: 33.3%**

**Percentage of Effort Contributed by Student2: 33.3%**

**Percentage of Effort Contributed by Student3: 33.3%**

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**Submission Date: 24/3/2025**

1. Retrieve all patient encounters along with their admission and discharge dates.  
*SELECT PatEncID, PatID, PatEncAdmitDate, PatEncDiscDate  
FROM patientencounter;*

	PatEncID	PatID	PatEncAdmitDate	PatEncDiscDate
▶	20001	115	2020-01-05 00:00:00	2020-01-12 00:00:00
	20002	121	2020-01-20 00:00:00	2020-01-30 00:00:00
	20003	124	2020-01-23 00:00:00	2020-02-02 00:00:00
	20004	101	2020-02-05 00:00:00	2020-02-19 00:00:00
	20005	113	2020-02-08 00:00:00	2020-02-23 00:00:00
	20006	109	2020-02-11 00:00:00	2020-02-25 00:00:00
	20007	130	2020-02-23 00:00:00	2020-03-05 00:00:00
	20008	101	2020-02-23 00:00:00	2020-02-27 00:00:00
	20009	127	2020-02-26 00:00:00	2020-03-02 00:00:00
	20010	109	2020-03-10 00:00:00	2020-03-19 00:00:00
	20011	105	2020-03-11 00:00:00	2020-03-12 00:00:00
	20012	120	2020-03-11 00:00:00	2020-03-15 00:00:00
	20013	129	2020-03-13 00:00:00	2020-03-28 00:00:00

2. Find the total claim amount sanctioned for each patient encounter.

```
SELECT PatEncID, SUM(ClaimSanctionAmt) AS TotalSanctionedAmount
FROM Billing
GROUP BY PatEncID;
```

PatEncID	TotalSanctionedAmount
20001	70
20002	4
20003	3
20004	4
20005	116
20006	128
20007	2
20008	6
20009	2
20010	156
20011	8
20012	8
20013	9
20014	5
20015	2
20016	6
20017	8
20018	9
20019	5
20020	4
20021	5
20022	70

3. Get the count of unique diagnosis codes used in the system.

```
SELECT COUNT(DISTINCT DxCode) AS UniqueDiagnoses FROM DiagnosisDetails;
```

UniqueDiagnoses
▶ 25

4. Find patients diagnosed with a specific condition (e.g., 'Hypertension').

```
SELECT d.PatEncID, dd.DxName
FROM Diagnosis d
JOIN DiagnosisDetails dd ON d.DxCode = dd.DxCode
WHERE dd.DxName = 'Hypertension';
```

	PatEncID	DxName
▶	20010	Hypertension
	20011	Hypertension
	20051	Hypertension
	20062	Hypertension
	20078	Hypertension

5. Retrieve the total number of patients associated with an emergency contact (EPOC).

```
SELECT COUNT(DISTINCT PatID) AS TotalPatientsWithEPOC FROM Epoc;
```

	TotalPatientsWithEPOC
▶	30

6. Retrieve all medications sorted by price (highest to lowest).

```
SELECT * FROM MedicationDetails WHERE MedID IS NOT NULL ORDER BY MedPrice
DESC;
```

	MedID	MedName	MedPrice
	48	Gabapentin	10.2
	47	Nyquil	9.99
	41	Contac	6.86
	42	Tylenol	6.5
	46	Advil	5.99
	43	Atorvastatin	5.4
	49	Omeprazole	5.1
	45	Metformin	4
	51	Amlodipine	3.9
	44	Lisinopril	3
	50	Losartan	2.14

7. Retrieve all emergency contacts (EPOC) sorted by last name.

```
SELECT * FROM Epoc ORDER BY EPOCLastName ASC;
```

EPOCID	PatID	EPOCFirstName	EPOCLastName	EPOCPhoneNo
5	105	Alonzo	Allen	4805511804
17	117	Christian	Armstrong	4432104071
10	110	Salvador	Barnett	3402205144
27	127	Jo	Boyd	3523446389
8	108	Arlene	Bridges	7725386959
7	107	Toni	Collins	5592178932
15	115	Brendan	Daniel	2139638469
3	103	Bobbie	Harper	6463538347
23	123	Penny	Harrison	6627142782
21	121	June	Herrera	4108587688
25	125	Elvira	Howard	8016455363
18	118	Casey	Huff	5673514078
14	114	Georgia	Hunter	4195306136
6	106	Emilio	Klein	2675371407
4	104	Bernard	Mccormick	4127741666
1	101	Anthony	Mendoza	3607027103
26	126	Jeannie	Morrison	8147150156
19	119	Luz	Moss	2603571958
11	111	Tracy	Mullins	2814701730
13	113	Conrad	Patrick	6083474141
2	102	Colleen	Reed	3346093248
22	122	Marilyn	Reyes	9405576186
30	130	Jose	Richards	7043395859
20	120	Alexis	Rivera	4082447244
12	112	Glen	Ruiz	7753539431