

Sunrise Hospital Analysis

AGENDA

- 1. Introduction
- 2. Objective
 - 3. Dataset
- 4. Requests
 - 5. Insights

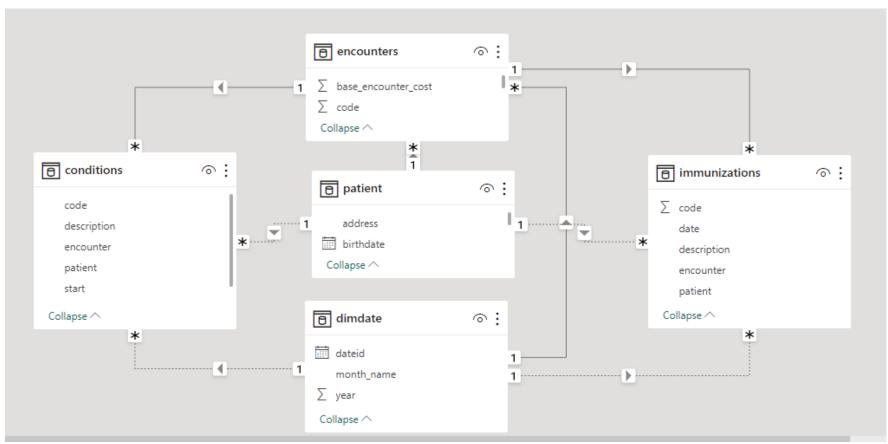
Introduction

Sunrise Hospital is the leading healthcare Hospital in India with mission is to enhance the health and well-being through personalized and comprehensive medical services.

Objective

Doctors in Sunrise Hospital requests insights from data collected between year **2015** and **2023**. The objective is to optimize improve patient outcomes and support informed decision-making within the healthcare institution.

Dataset and modelling



Tools used



Calculate total patient count from year 2015-2023

select count(distinct patient) as total_patient_count
from encounters

SQL

total_patient_count
bigint

1 10458

Power BI

Total Patient Count

10,458

Calculate total immunization for year 2022

```
select count(code) as immunization_count
from immunizations
where date between '2022-01-01' and '2022-12-31'
```

SQL

immunization_count bigint 14074

Power BI

Immunization count

14,074

Calculate distinct condition for year 2019

```
select count(distinct code) as distinct_condition
from conditions
where start between '2019-01-01' and '2019-12-31'
```

SQL

distinct_condition bigint 120

Power BI

Distinct Condition

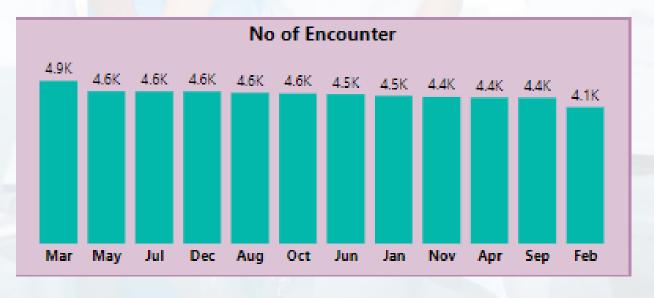
120

Calculate no of encounters of each month for year 2020

```
select month_name,
count(id)
from encounters as e
inner join dimdate as d
on e.start=d.dateid
where e.start between '2020-01-01' and '2020-12-31'
group by month_name
order by 2 desc
```

SQL

	month_name character varying (100)	count bigint
1	Mar	4936
2	May	4623
3	Jul	4617
4	Dec	4615
5	Aug	4574
6	Oct	4552
7	Jun	4529
8	Jan	4478
9	Nov	4445
10	Apr	4426
11	Sep	4422
12	Feb	4131



Mention patient full name with no immunization

```
select concat(first ||' '||last) as full_name
from immunizations as i
right join patients as p
on i.patient=p.id
where i.patient is null
order by 1 asc
```

SQL

	full_name text	
1	Bernita Turner	
2	Blake Anderson	
3	Cleopatra Abshire	
4	Isidra Mosciski	
5	Janina Medhurst	
6	Jolie Volkman	
7	Lottie Heller	
8	Shawn Mueller	

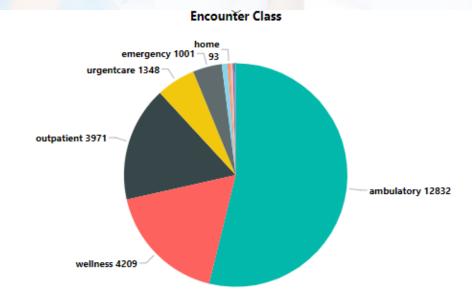


Calculate encounterclass for year 2023

```
select encounterclass,
count(*)
from encounters
where start between '2023-01-01' and '2023-12-31'
group by encounterclass
order by 2 desc
```

SQL

	encounterclass character varying (100)	count bigint
1	ambulatory	12832
2	wellness	4209
3	outpatient	3971
4	urgentcare	1348
5	emergency	1001
6	inpatient	199
7	home	93
8	virtual	80
9	snf	68
10	hospice	39

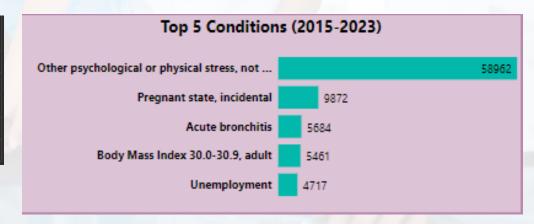


Mention top 5 conditions from 2015-2023

select description,
count(*)
from conditions
group by description
order by 2 desc
limit 5

SQL

description
character varying (200)Count
bigintCount
bigint1Other psychological or physical stress, not elsewhere classifi...589622Pregnant state, incidental98723Acute bronchitis56844Body Mass Index 30.0-30.9, adult54615Unemployment4717



Insights

- From total registered patients in Sunrise Hospital 8 patients has not taken any immunization
- Most highest encounter class for year 2023 was Ambulatory
- Pre-COVID year (2019) their were around 120 distinct conditions reported in Sunrise hospital
- Other psychological and physical stress is top health condition between 2015-2023
- Hospital provided total immunization of 14,074 in year 2022

