

HEALTHCARE DATA ANALYSIS



INTRODUCTION

Hello , my name is Snehal Devkar . In this project ,I used Powerbi , Mysql like tools. My passion for this field stems from the desire to leverage data-driven insights to improve patient outcomes, enhance the efficiency of health care systems, and contribute to the advancement of medical research.

PROJECT INTRODUCTION

In this healthcare project , we aim to analyze health care data to uncover insights that can improve patient outcomes, enhance operational efficiency, and optimize resource allocation to get patient information within health care systems. By leveraging advanced analytical techniques, including data visualization like powerbi obtain detail information of patient.

HEALTHCARE

name

1

Admit date

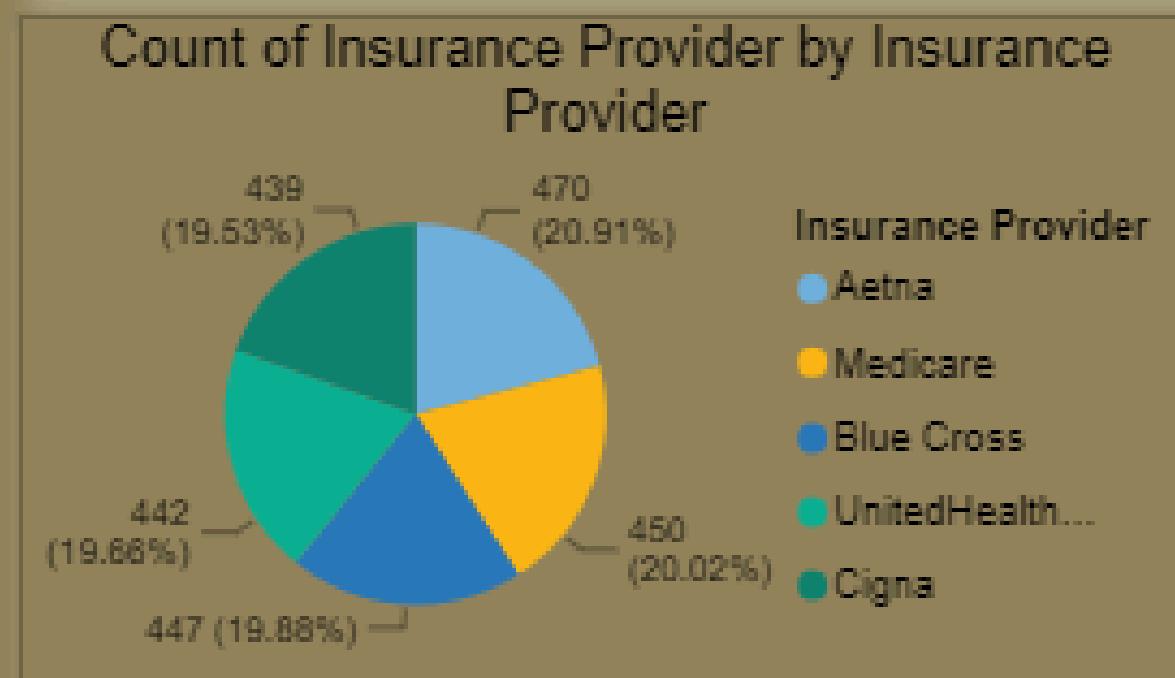
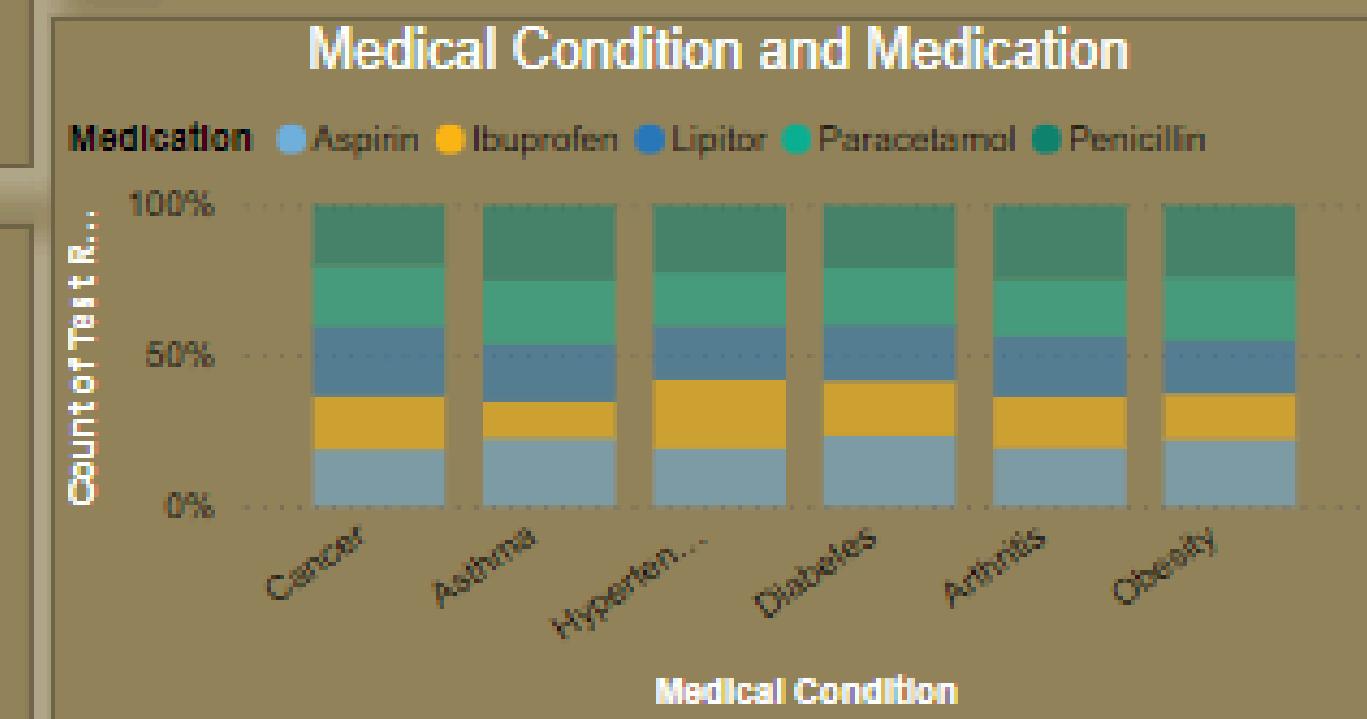
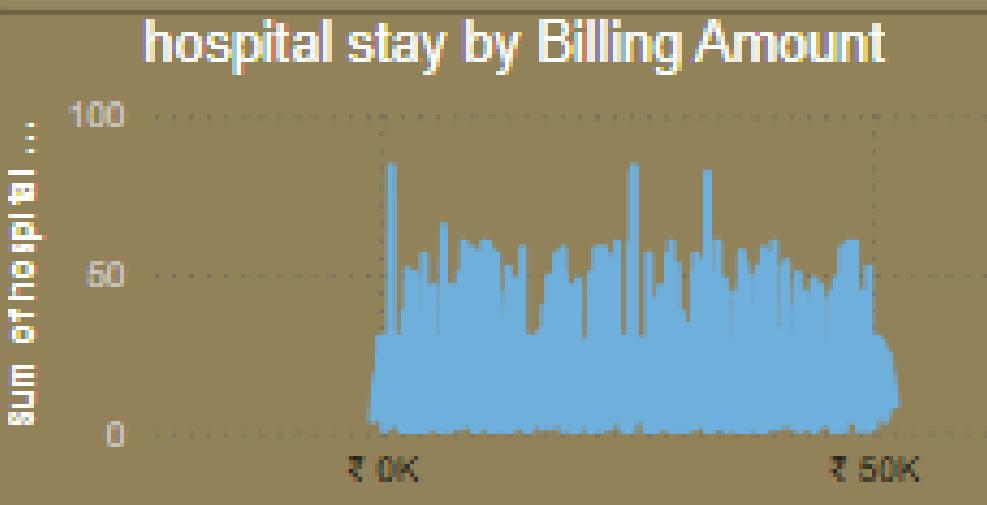
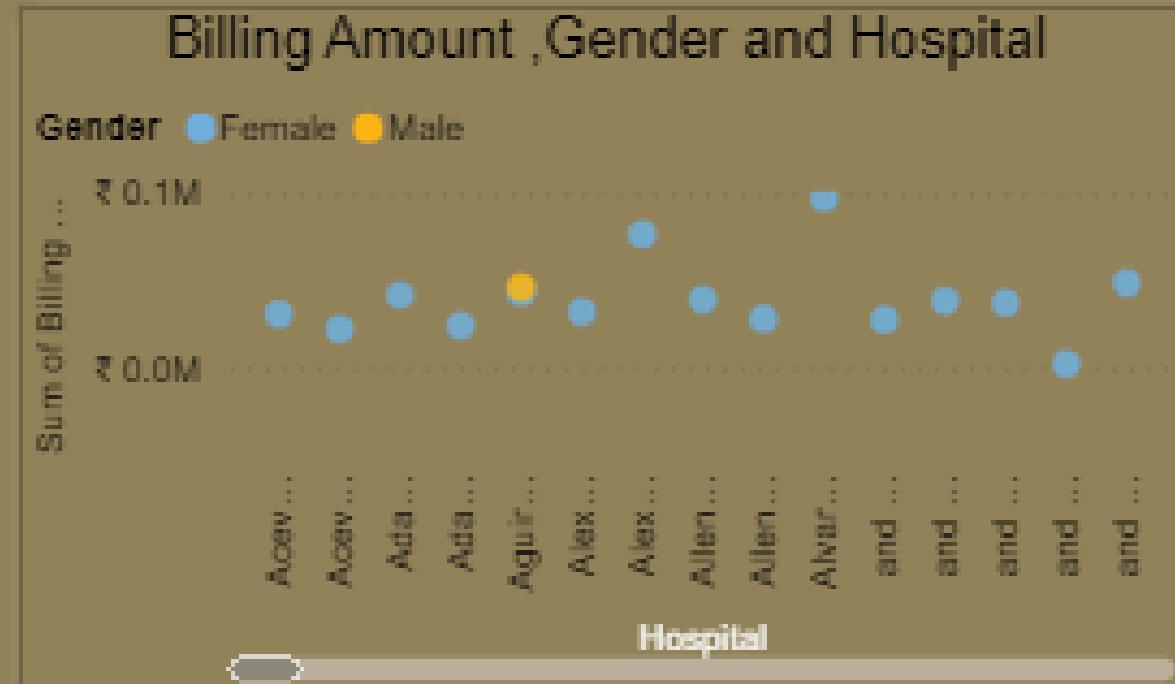
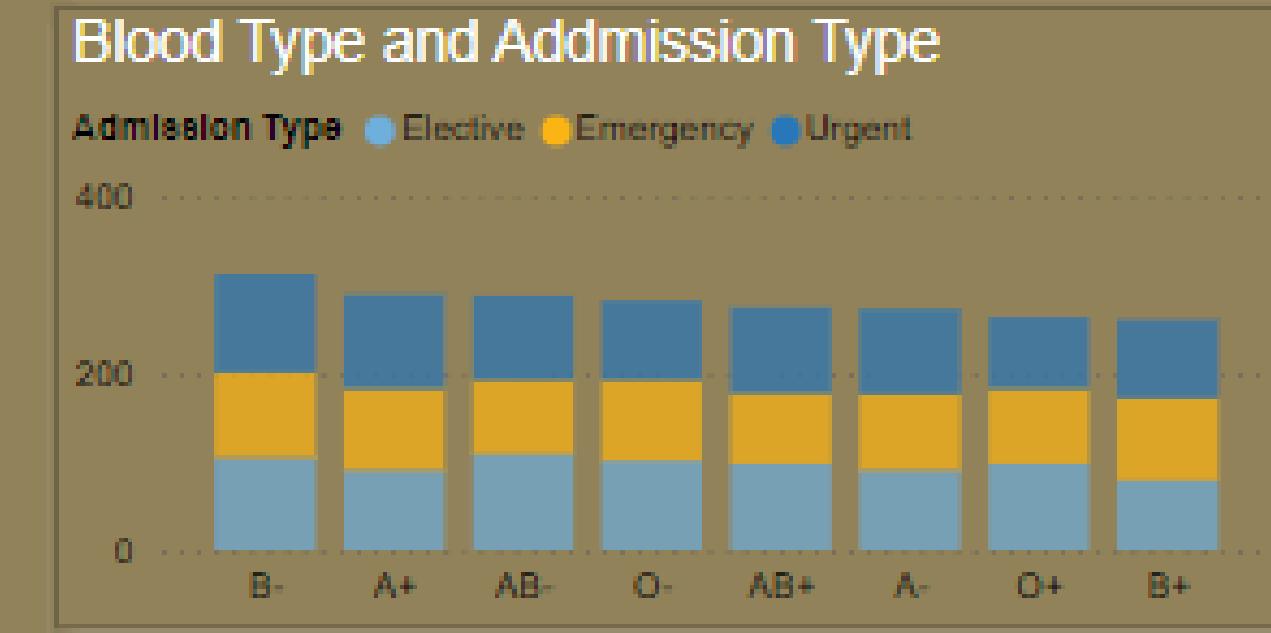
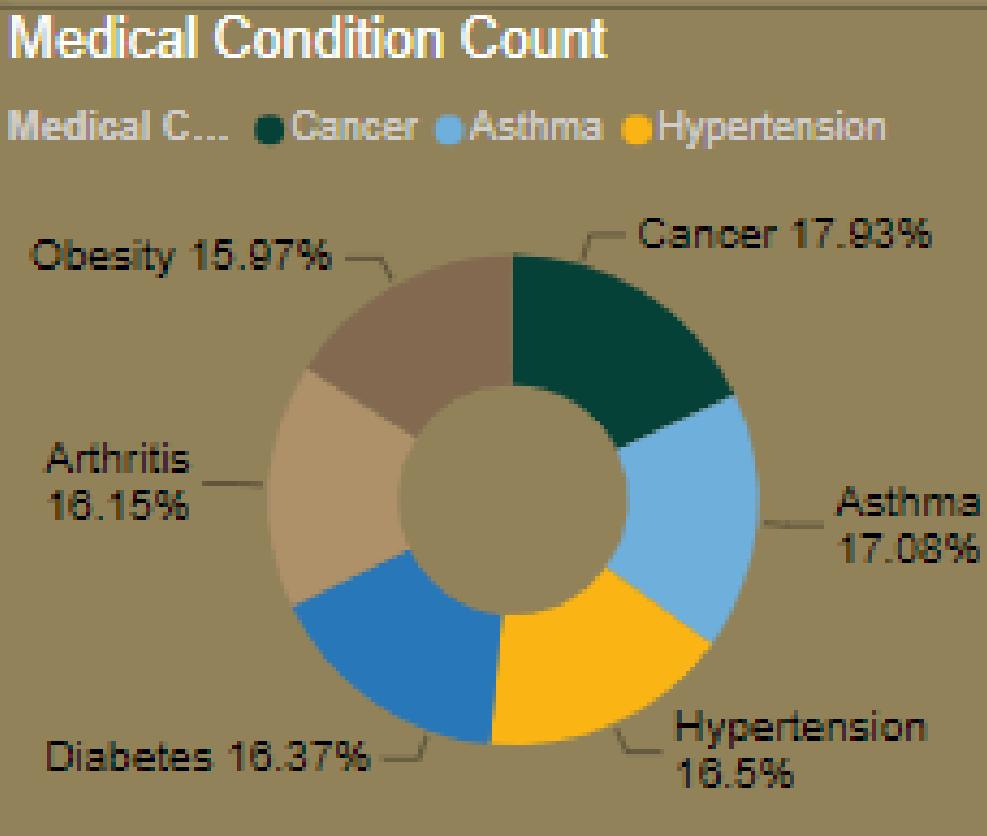
Discharge date

Billing Amount

₹ 57.77M

24-10-2019

03-01-2020



HEALTHCARE

Name
Aaron noble

Admit date

28-10-2019

Discharge date

07-11-2019

Billing Amount

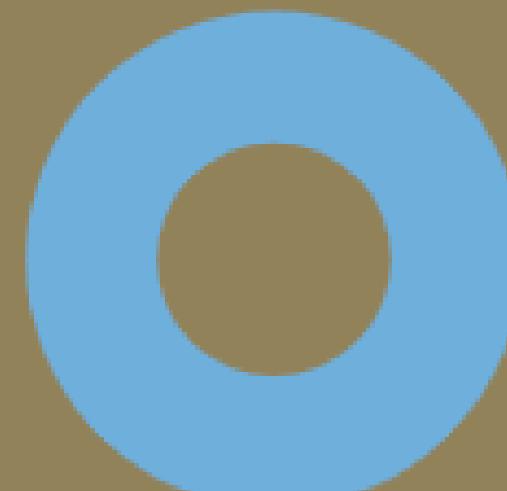
₹ 0.00M

24-10-2019

03-01-2020

Medical Condition Count

Medical C... ●Asthma



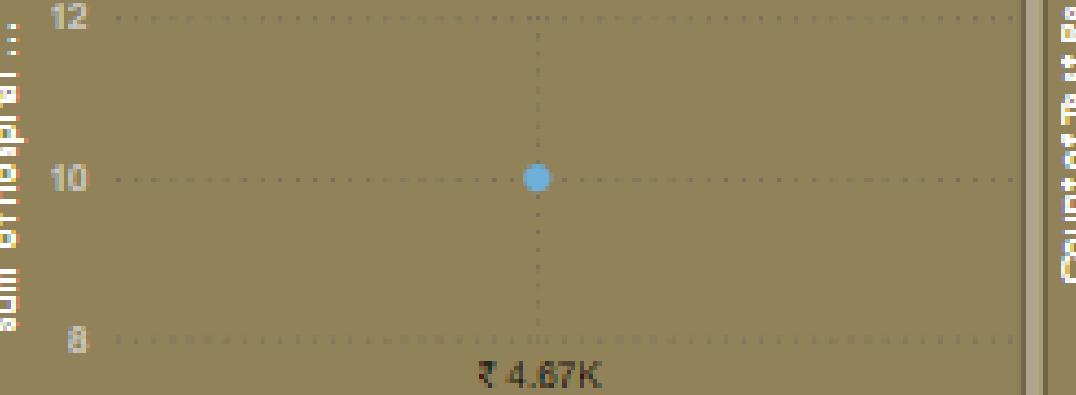
└ Asthma 100%

Blood Type and Admmission Type

Admmission Type ● Emergency

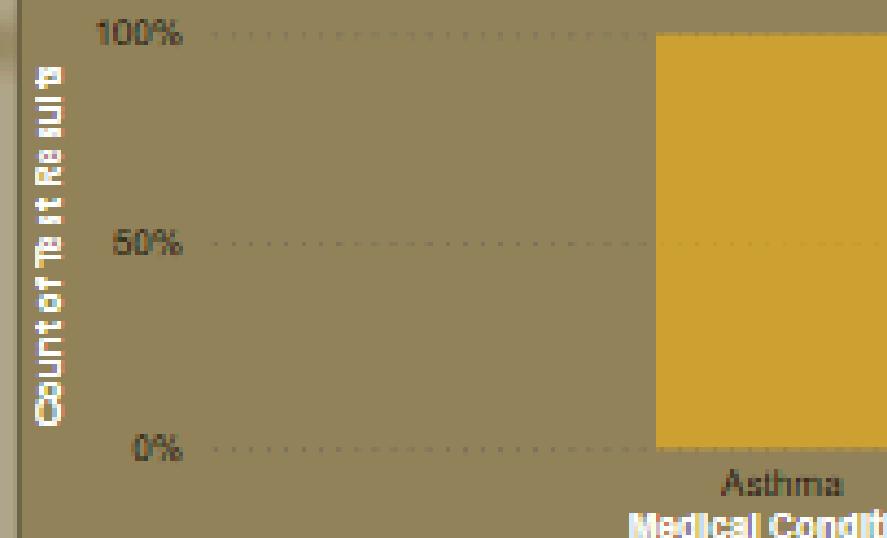


hospital stay by Billing Amount



Medical Condition and Medication

Medication ● Ibuprofen



Billing Amount ,Gender and Hospital

Gender ● Female

₹ 6K

₹ 4K

₹ 2K

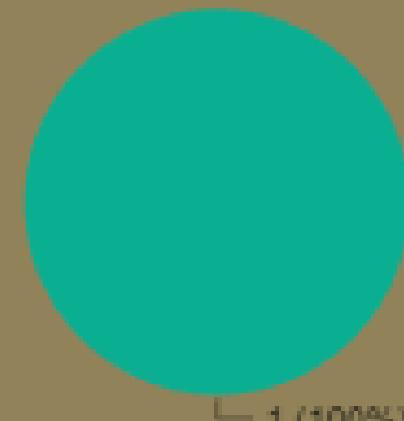
₹ 0K

Benson Ltd Hospital

●

Count of Insurance Provider by Insurance Provider

Insurance Provider
● UnitedHealth...



└ 1 (100%)

RIMBERIO

WHAT IS THE AVERAGE AGE OF PATIENTS HAVING A SPECIFIC DISEASE?

SELECT

```
medical_condition, AVG(age) AS avg_count
```

FROM

```
patient_data
```

```
GROUP BY (medical_condition);
```

	medical_condition	count
▶	Cancer	51.5560
	Obesity	51.2681
	Diabetes	51.6257
	Asthma	51.6776
	Hypertension	51.6503

RIMBERIO

DOCTORS DATA WITH COUNT OF PATIENT THEY TREATED IN DESCENDING ORDER?

```
SELECT  
    doctor, COUNT(patient_name) AS count  
FROM  
    patient_data  
GROUP BY patient_data.doctor  
ORDER BY count DESC;
```

	doctor	count
▶	Michael Smith	38
	John Smith	34
	Robert Smith	33
	James Smith	30
	Michael Johnson	28

RIMBERIO

COUNT A MEDICATION USED FOR EACH DISEASE

```
SELECT  
    medical_condition, COUNT(medication)  
FROM  
    patient_data  
GROUP BY patient_data.medical_condition;
```

	medical_condition	count(medication)
▶	Cancer	13798
	Obesity	13732
	Diabetes	13861
	Asthma	13745

RIMBERIO

COUNT OF BLOOD TYPE BASED ON GENDER

```
select
blood_type,
gender,
count,
rank() over(partition by blood_type order by count) as rn
from
(SELECT
blood_type, gender, COUNT(patient_name) as count
FROM
patient_data
GROUP BY blood_type , gender) as rn;
```

	blood_type	gender	count	rn
▶	A-	Female	5130	1
	A-	Male	5269	2
	A+	Male	5066	1
	A+	Female	5357	2
	AB-	Female	5141	1
	AB-	Male	5201	2
	AB+	Female	5160	1
	AB+	Male	5266	2
	B-	Male	5189	1

RIMBERIO

HOW MANY EMERGENCY PATIENTS ARE IN PATIENT DATASET HAVING DIFFERENT TYPES OF DISEASE?

```
SELECT  
    admission_status,  
    medical_condition,  
    COUNT(patient_name) AS count  
FROM  
    patient_data  
WHERE  
    admission_status = 'emergency'  
GROUP BY patient_data.medical_condition;
```

	admission_status	medical_condition	count
▶	Emergency	Obesity	4617
	Emergency	Diabetes	4467
	Emergency	Cancer	4471
	Emergency	Hypertension	4498
	Emergency	Asthma	4491
	Emergency	Arthritis	4636

RIMBERIO

HOW MANY PATIENTS HAVING A+ BLOOD GROUP?

```
SELECT  
    COUNT(patient_name)  
FROM  
    healthcare.patient_data  
WHERE  
    blood_type = 'A+';
```

	count(patient_name)
▶	10423



THANK YOU!!
