

TeleCure Clinic



AGENDA

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

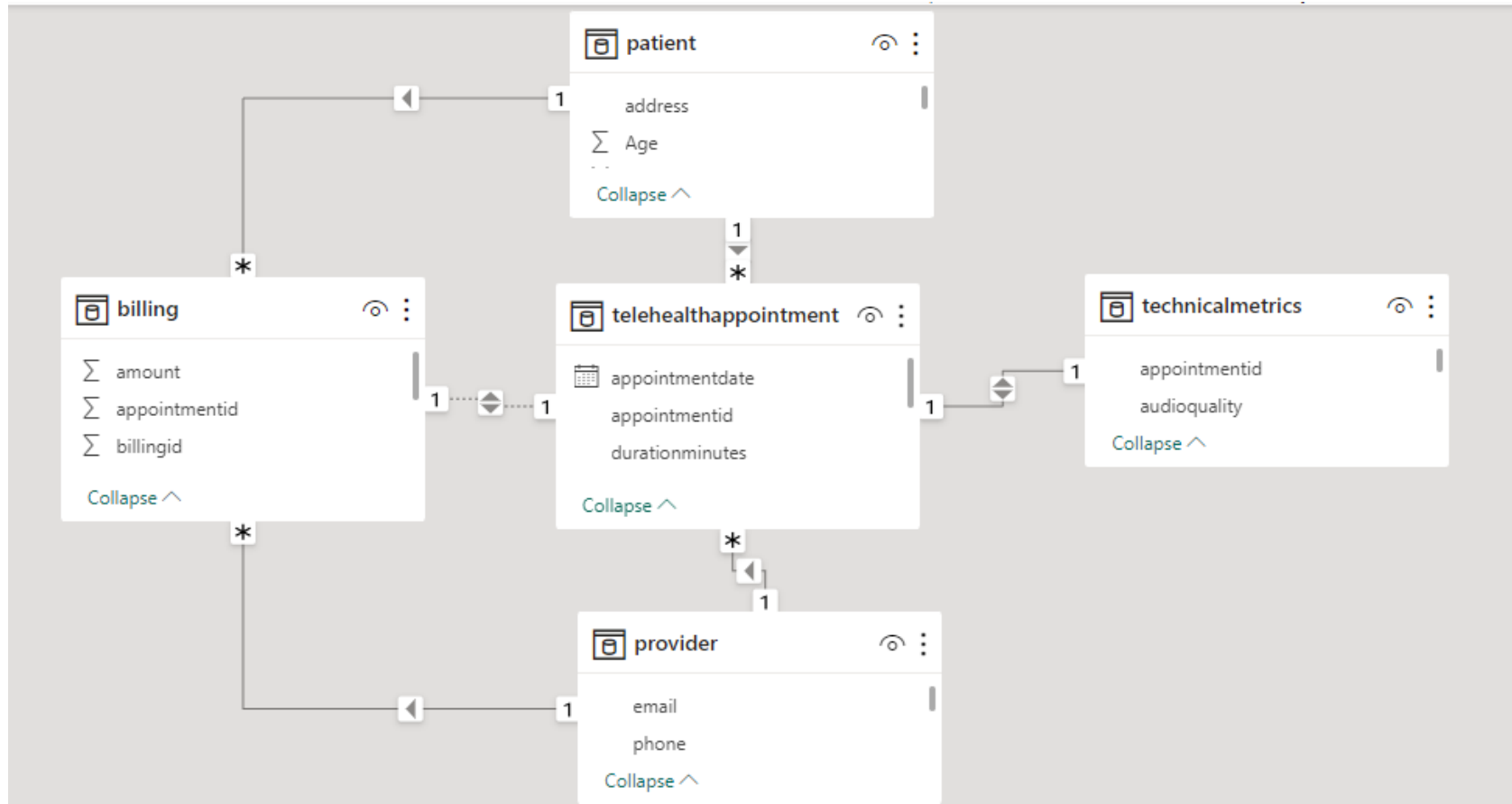
Introduction

TeleCure Clinic started telehealth service from January 2024, dedicated to bringing swift, convenient, and personalized medical care from the comfort of your home

Objective

Extract insights from the data collected in January 2024 to enhance and optimize TeleCure Clinic's services, ensuring a continuous commitment to delivering high-quality, patient-centered telehealthcare experiences

Dataset and modelling



Tools used



Question 1

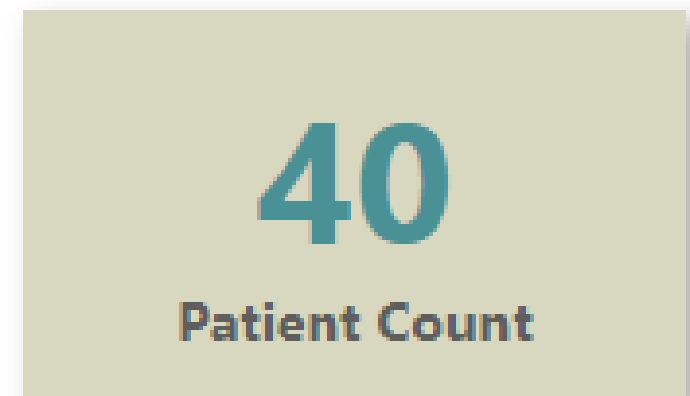
Calculate total no of patient in telehealth

```
select count(distinct patientid) as patient_count  
from patient
```

SQL

	patient_count bigint 
1	40

Power BI




Question 2

Calculate average appointment duration

```
select round(avg(durationminutes),2) as avg_duration  
from telehealthappointment
```

SQL

	avg_duration numeric 
1	43.89

Power BI

43.89

Average duration (in Min)

Question 3

Calculate % of appointment with connection issue

```
SELECT
    COUNT(t.AppointmentID) AS TotalAppointments,
    SUM(CASE WHEN tm.ConnectionQuality = 'Poor' THEN 1 ELSE 0 END) AS AppointmentsWithConnectionIssues,
    (SUM(CASE WHEN tm.ConnectionQuality = 'Poor' THEN 1 ELSE 0 END) * 100.0) / COUNT(t.AppointmentID) AS PercentageWithConnectionIssues
FROM TelehealthAppointment t
LEFT JOIN TechnicalMetrics tm ON t.AppointmentID = tm.AppointmentID;
```

SQL

Power BI

percentagewithconnectionissues
numeric

5.7894736842105263

5.79

Percent of Connection Issue

Question 4

Calculate provider name and amount of pending revenue

```
select concat(firstname||' '||lastname) as providername,  
sum(amount) as amount_pending  
from billing  
inner join provider  
on billing.providerid=provider.providerid  
where paymentstatus='Pending'  
group by firstname, lastname  
order by 2 desc
```

SQL

	providername text	amount_pending numeric
1	Dr. James Jones	210.00
2	Dr. Olivia Owens	210.00
3	Dr. Daniel Davis	210.00
4	Dr. Emily Miller	210.00
5	Dr. Logan Lambert	150.00
6	Dr. Sarah Johnson	150.00
7	Dr. William Wilson	150.00
8	Dr. Benjamin Baker	150.00
9	Dr. Liam Larson	150.00
10	Dr. Ava Adams	140.00

Power BI


Provider name	Amount Pending
Dr. Daniel Davis	₹210
Dr. Emily Miller	₹210
Dr. James Jones	₹210
Dr. Olivia Owens	₹210
Dr. Benjamin Baker	₹150
Dr. Liam Larson	₹150
Dr. Logan Lambert	₹150
Dr. Sarah Johnson	₹150
Dr. William Wilson	₹150

Question 5

Calculate average patient age in telehealth

```
select avg(date_part('Year', age(dateofbirth))) as avg_age  
from patient
```

SQL

	avg_age double precision 
1	35

Power BI

36
Average Patient Age

Question 6

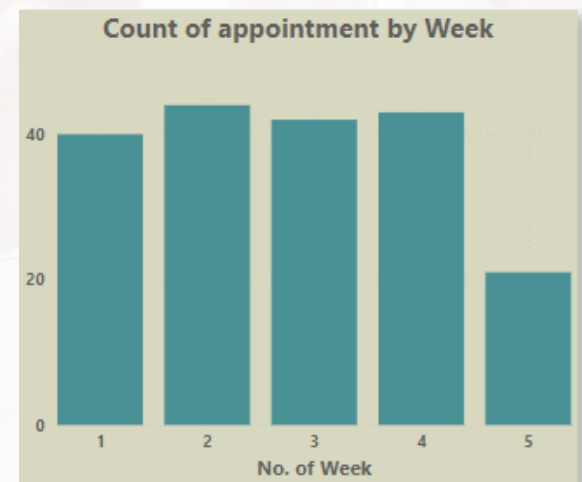
Calculate no of appointment per week in January 2024

```
with cte as(
select count(*) as no_of_appointment,'1st week' as week
from telehealthappointment
where appointmentdate between '2024-01-01 00:00:00' and '2024-01-07 23:59:59'
union
select count(*) as no_of_appointment,'2nd week' as week
from telehealthappointment
where appointmentdate between '2024-01-08 00:00:00' and '2024-01-14 23:59:59'
union
select count(*) as no_of_appointment,'3rd week' as week
from telehealthappointment
where appointmentdate between '2024-01-15 00:00:00' and '2024-01-21 23:59:59'
union
select count(*) as no_of_appointment,'4th week' as week
from telehealthappointment
where appointmentdate between '2024-01-22 00:00:00' and '2024-01-28 23:59:59'
union
select count(*) as no_of_appointment,'5th week' as week
from telehealthappointment
where appointmentdate between '2024-01-29 00:00:00' and '2024-01-31 23:59:59'
)
select no_of_appointment, week
from cte
order by 2 asc
```

SQL

	no_of_appointment bigint	week text
1	40	1st week
2	44	2nd week
3	42	3rd week
4	43	4th week
5	21	5th week

Power BI



Question 7

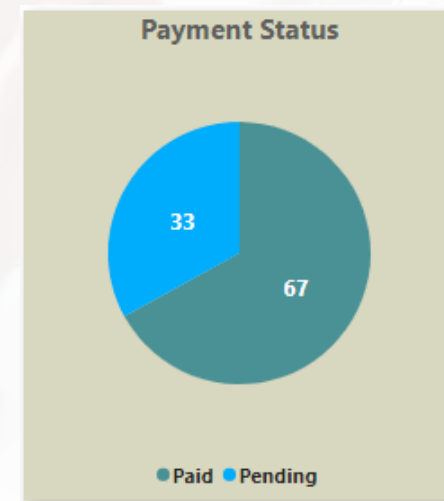
Calculate count of paid and pending payment status

```
select sum(case when paymentstatus='Paid' then 1 else 0 end) as paid_count,  
       sum(case when paymentstatus='Pending' then 1 else 0 end) as pending_count  
from billing
```

SQL

	paid_count bigint	pending_count bigint
1	67	33

Power BI



Insights

- **Second week** of Jan had highest no of appointment for telehealth service
- Average appointment duration is **43 minutes**
- There was **5.79%** of connection issue during telehealth service
- Average patient age in telehealth was **36** years
- Out of all appointments for Jan 2024 , **67** were paid and **33** were pending

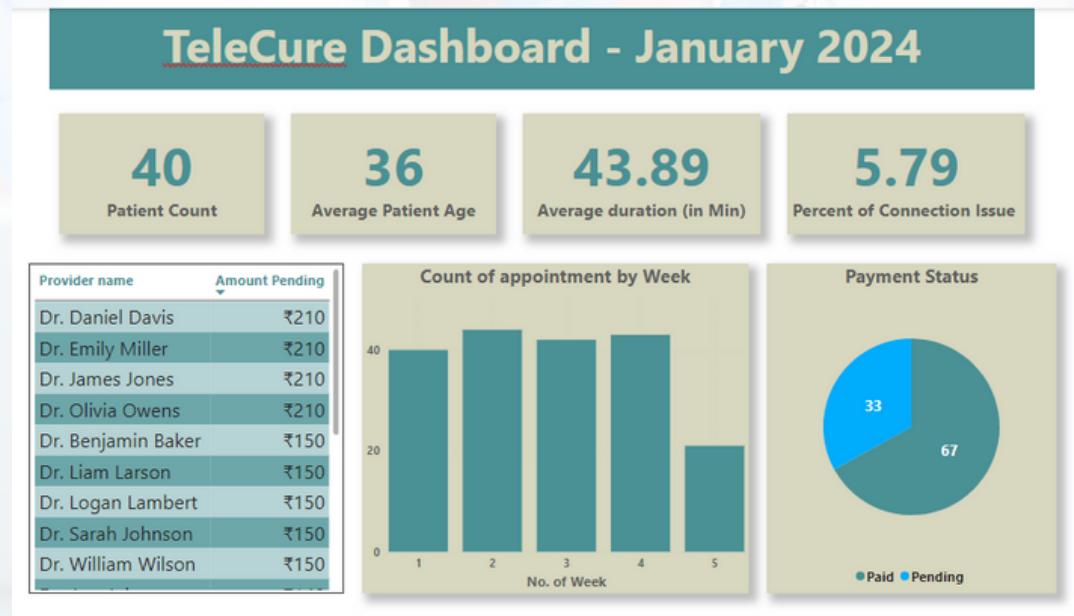
Link

SQL link-

<https://github.com/nikitavutekar/TeleCure-Clinic.git>
[TeleCure-Clinic.git](#)

Dashboard link-

<https://www.novopro.com/project/telecure-dashboard>





thank you!