

# TeleCure Clinic



# **AGENDA**

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

# Introduction

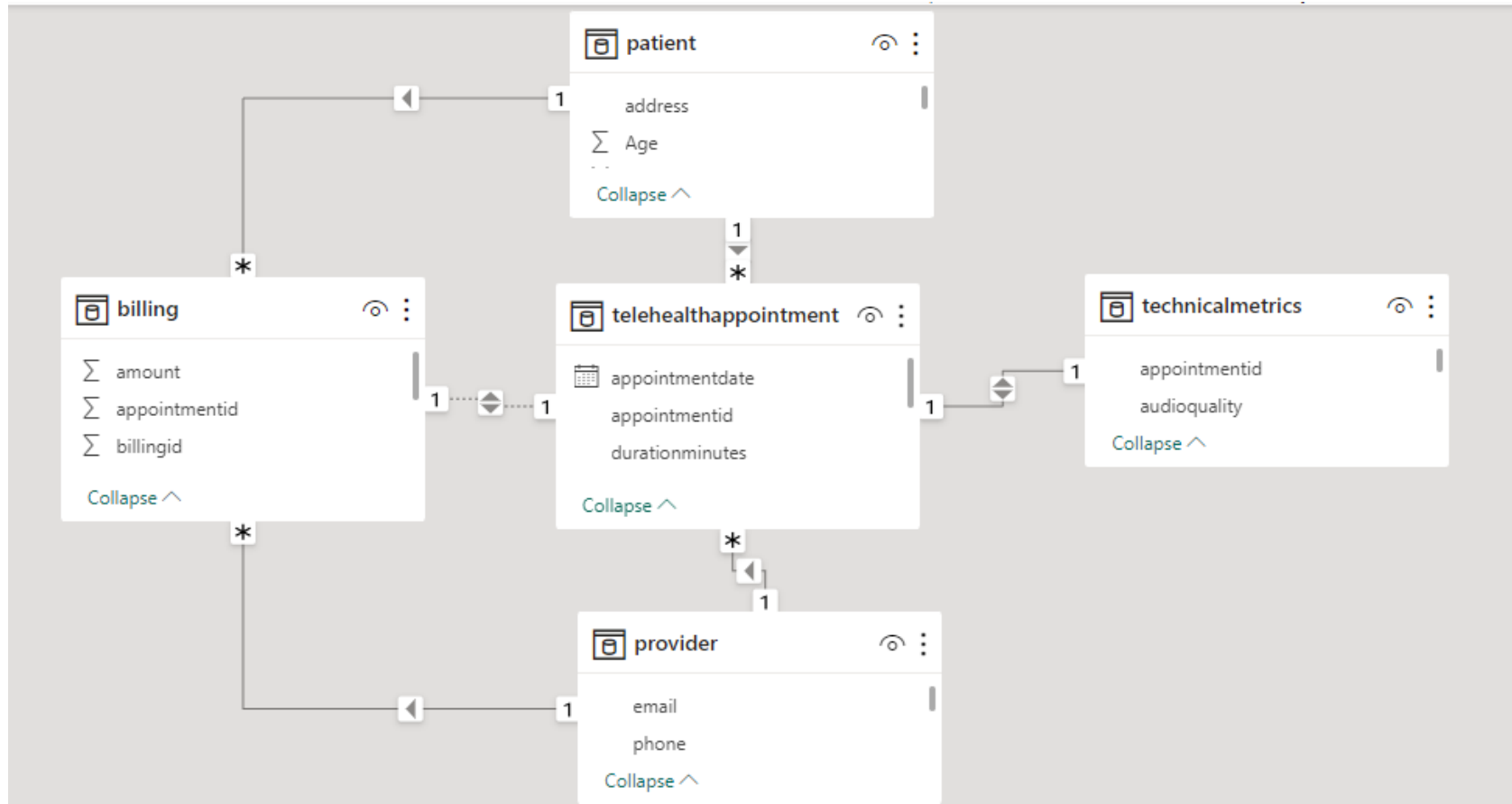
TeleCure Clinic started telehealth service from January 2024, dedicated to bringing swift, convenient, and personalized medical care from the comfort of your home



# 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

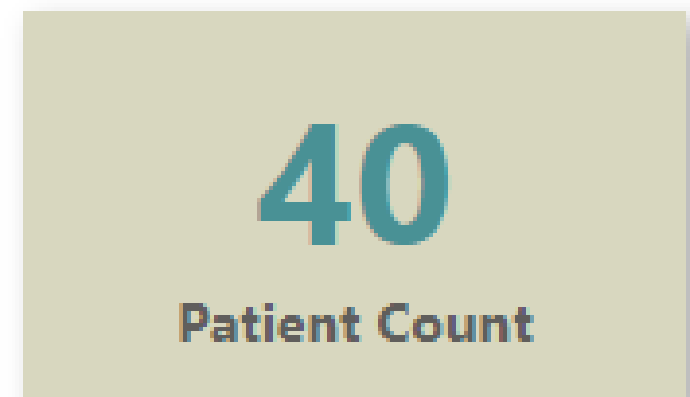
Calculate total no of patient in telehealth

```
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

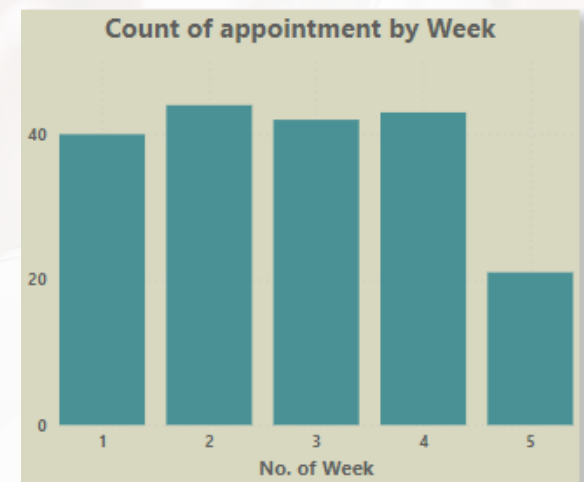
Calculate no of appointment per week in January 2024

```
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

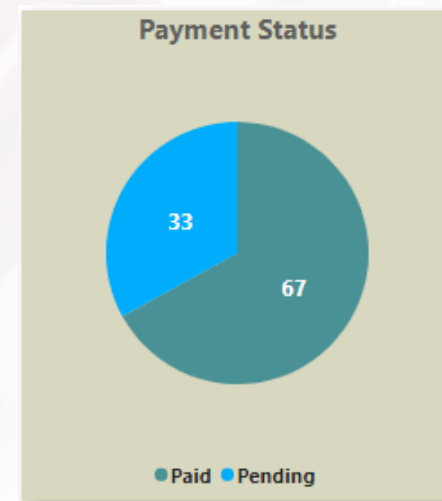
Calculate count of paid and pending payment status

```
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

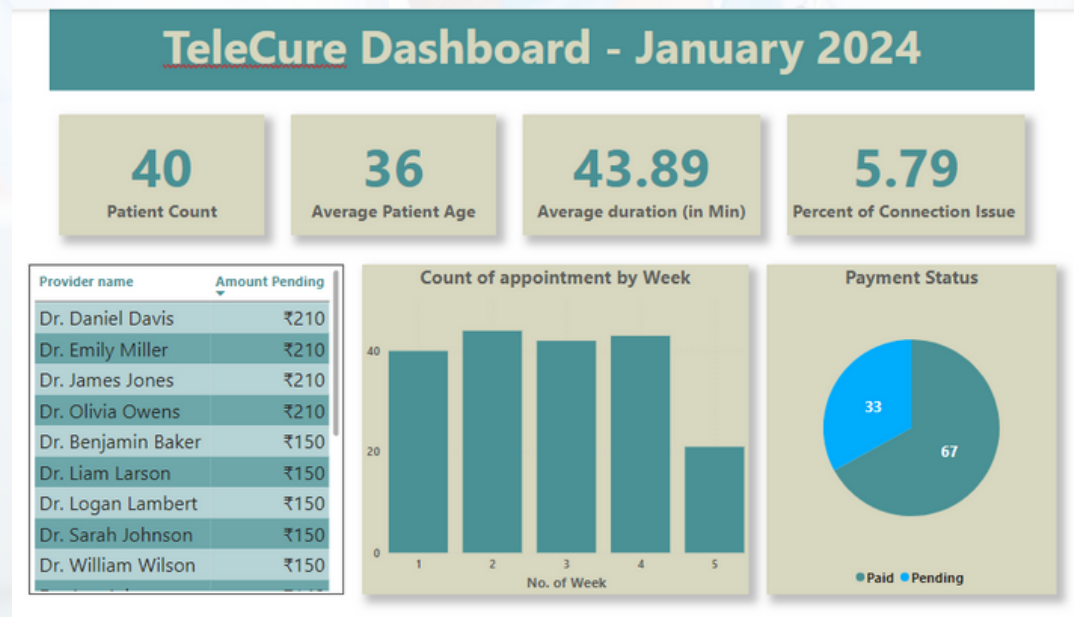
# Link

SQL link-

<https://github.com/nikitavutekar/TeleCure-Clinic.git>

Dashboard link-

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







thank you!