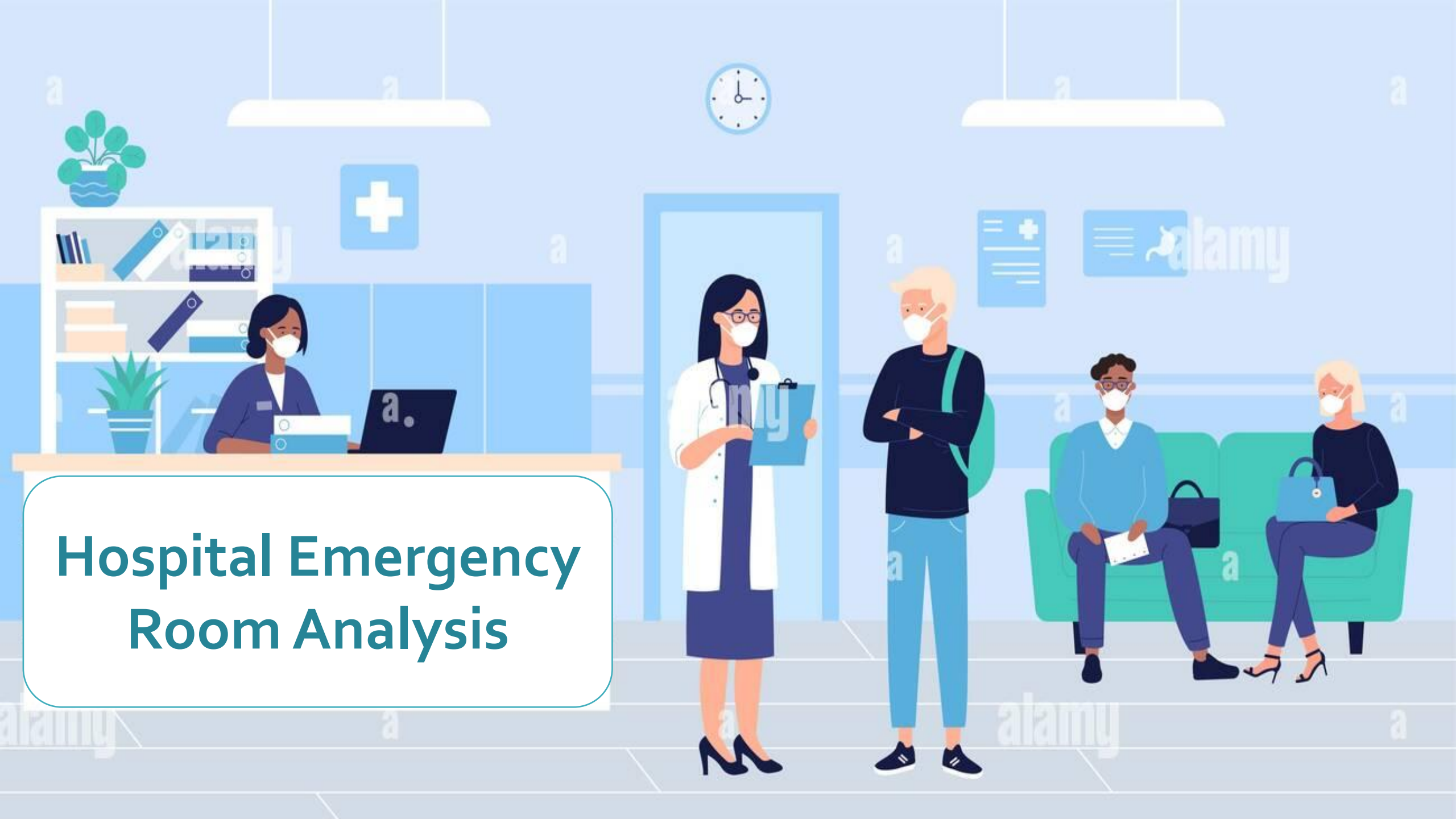


Hospital Emergency Room Analysis



HOSPITAL EMERGENCY ROOM ANALYSIS



PRESENTED BY MAYANK KUMAR

The background is a light blue-grey surface covered with a dense collage of small, hand-drawn style icons and diagrams. These include various types of charts (line graphs, bar charts, pie charts), flowcharts, organizational charts, and symbols representing people, data, and business processes. Some text labels like 'PLAN', 'MAX', 'IDEA', and 'OPTION' are also visible among the graphics.

PURPOSE OF PROJECT


We need to create a Hospital Emergency Room Analysis Dashboard in Power BI to improve efficiency and **provide** useful insights. This dashboard will help stakeholders monitor, analyze, and make better decisions for managing patients and improving services.

Charts to Create:

- **Patient Admission Status:** Show how many patents were admitted vs. not admitted.
- **Patient Age Distribution:** Group patients by age.
- **Timeliness:** Measure the percentage of patients seen within 30 minutes.
- **Gender Analysis:** Display the number of patients by gender.
- **Department Referrals:** Check which departments patients are referred to the most.



UNCLEANED DATA SET

A ^B _C Patient Id	 Patient Admission Date	A ^B _C Patient First Initial	A ^B _C Patient Last Name	A ^B _C Patient Gender
<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>	<div>Valid 100%</div> <div>Error 0%</div> <div>Empty 0%</div>
145-39-5406	20-03-2024 08:47:00 AM	H	Glasspool	M
316-34-3057	15-06-2024 11:29:00 AM	X	Methuen	M
897-46-3852	20-06-2024 09:13:00 AM	P	Schubuser	F
358-31-9711	04-02-2024 10:34:00 PM	U	Titcombe	F
289-26-0537	04-09-2024 05:48:00 PM	Y	Gionettitti	Male
255-51-2877	20-04-2023 12:13:00 AM	H	Buff	M
465-97-0990	23-08-2023 08:26:00 AM	F	Perrat	F
157-31-7520	29-07-2023 04:57:00 PM	K	Gwillim	F
432-34-5614	19-02-2024 06:54:00 AM	E	Dewhirst	F
609-17-8678	11-10-2024 05:25:00 AM	M	Crebo	Male
497-14-6812	26-07-2024 01:45:00 AM	Q	Churchard	F
393-38-9502	10-03-2024 10:02:00 PM	N	Corpes	F
288-05-6370	12-11-2023 04:00:00 PM	R	Brixey	F
784-54-9931	25-06-2023 09:40:00 AM	M	Goudie	M
662-21-6522	04-05-2023 01:16:00 PM	G	Stanlack	Male
628-73-1801	19-09-2023 01:53:00 AM	C	McMurty	M
370-19-2271	25-05-2024 10:11:00 PM	I	Scothorn	F
458-98-8860	25-06-2023 06:59:00 PM	J	Helgass	M
728-31-2493	04-09-2023 04:15:00 PM	W	Chittock	F
823-34-5523	16-11-2023 11:46:00 PM	F	Prendergast	M

LINK OF UNCLEAN DATA SET




[CLICK HERE](#)



Applied Steps for Cleaning Data

APPLIED STEPS	
Source	✖
Promoted Headers	✖
Changed Type	
Merged Columns	✖
Replaced Value	✖
Replaced Value1	✖
Changed Type1	
Replaced Value2	✖
Replaced Value3	✖
Removed Columns	
Split Column by Delimiter	✖
Changed Type2	
✖ Renamed Columns	

CLEAN DATA SET

A ^B _C Patient Id	 Patient Admission Date	 Patient Admission Time	A ^B _C Merged	A ^B _C Patient Gender
<div><div>Valid</div><div>100%</div></div> <div><div>Error</div><div>0%</div></div> <div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div></div> <div><div>Error</div><div>0%</div></div> <div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div></div> <div><div>Error</div><div>0%</div></div> <div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div></div> <div><div>Error</div><div>0%</div></div> <div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div></div> <div><div>Error</div><div>0%</div></div> <div><div>Empty</div><div>0%</div></div>
145-39-5406	20-03-2024	08:47:00 AM	H. Glasspool	Male
316-34-3057	15-06-2024	11:29:00 AM	X. Methuen	Male
897-46-3852	20-06-2024	09:13:00 AM	P. Schubuser	Female
358-31-9711	04-02-2024	10:34:00 PM	U. Titcombe	Female
289-26-0537	04-09-2024	05:48:00 PM	Y. Gionettitti	Male
255-51-2877	20-04-2023	12:13:00 AM	H. Buff	Male
465-97-0990	23-08-2023	08:26:00 AM	F. Perrat	Female
157-31-7520	29-07-2023	04:57:00 PM	K. Gwillim	Female
432-34-5614	19-02-2024	06:54:00 AM	E. Dewhirst	Female
609-17-8678	11-10-2024	05:25:00 AM	M. Crebo	Male
497-14-6812	26-07-2024	01:45:00 AM	Q. Churchard	Female
393-38-9502	10-03-2024	10:02:00 PM	N. Corpes	Female
288-05-6370	12-11-2023	04:00:00 PM	R. Brixey	Female
784-54-9931	25-06-2023	09:40:00 AM	M. Goudie	Male
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728-31-2493	04-09-2023	04:15:00 PM	W. Chittock	Female
823-34-5523	16-11-2023	11:46:00 PM	F. Prendergast	Male

LINK OF CLEAN DATA SET



[CLICK HERE](#)



Calendar Table Formula

= List.Dates(#date(2023,01,01), 731,#duration(1,0,0,0))

Date	
Valid	100%
Error	0%
Empty	0%
01-01-2023	
02-01-2023	
03-01-2023	
04-01-2023	
05-01-2023	
06-01-2023	
07-01-2023	
08-01-2023	
09-01-2023	
10-01-2023	
11-01-2023	
12-01-2023	
13-01-2023	
14-01-2023	
15-01-2023	
16-01-2023	
17-01-2023	
18-01-2023	
19-01-2023	
20-01-2023	

DAX Formulas

- DAX Formula for age group:

```
=IF([Patient Age]>70,"70-79",IF([Patient Age]>60,"60-69",IF([Patient Age]>50,"50-59",IF([Patient Age]>40,"40-49",IF([Patient Age]>30,"30-39",IF([Patient Age]>20,"20-29",IF([Patient Age]>10,"10-09","0-09"))))))))
```

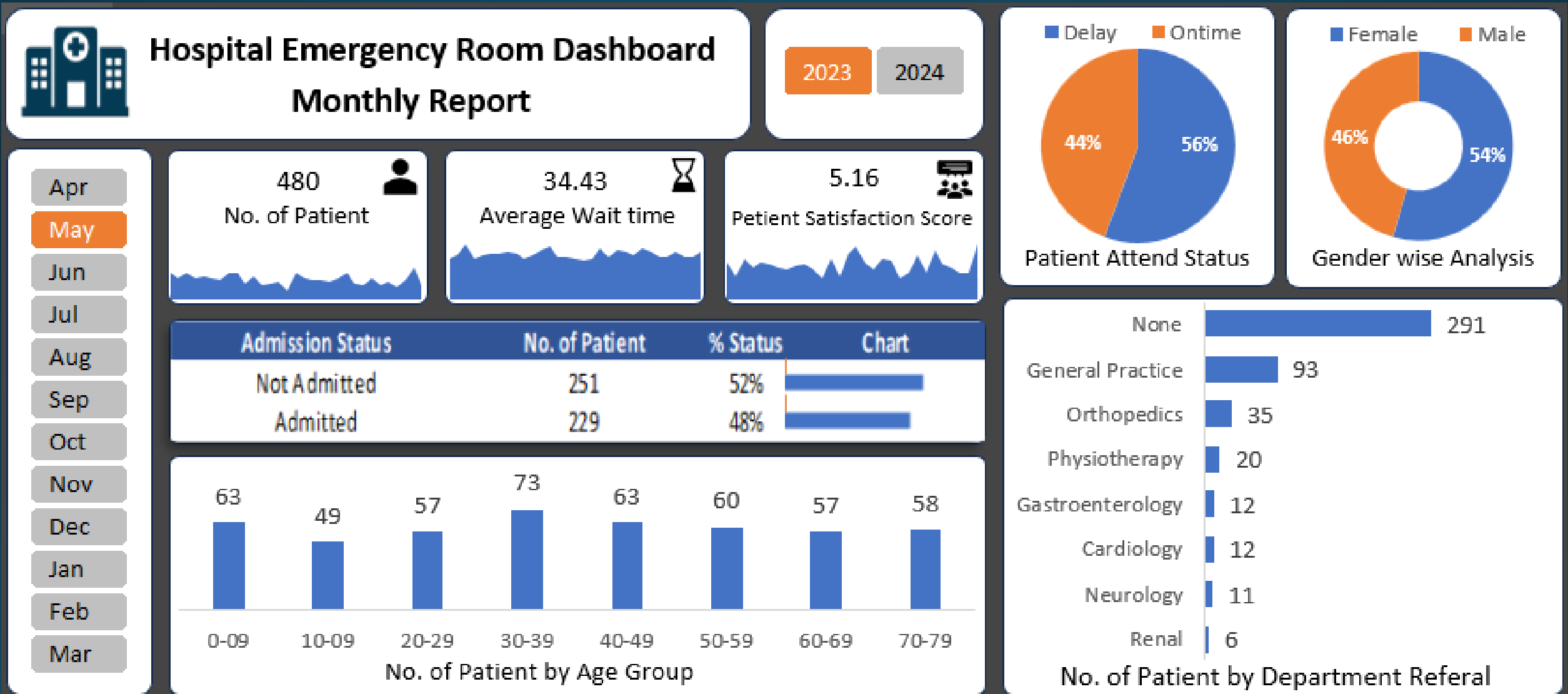
Age Group
60-69
70-79
10-09
10-09
40-49
60-69
50-59
20-29
20-29
70-79
70-79
10-09
50-59
0-09
70-79

- DAX Formula for Patient Attend Status

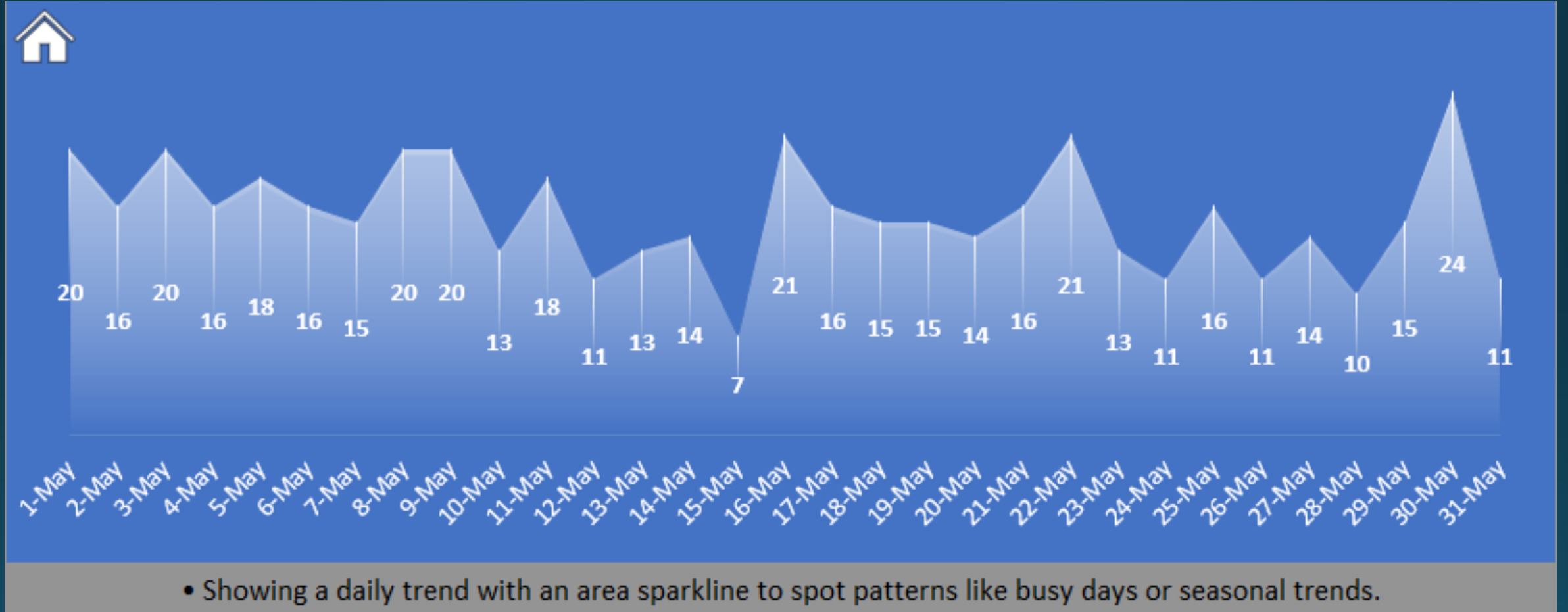
=IF([Patient Waittime]>30,"Delay","Ontime")

Patient attend Status
Delay
Delay
Ontime
Delay
Delay
Delay
Delay
Delay
Delay
Delay
Delay
Delay
Delay
Ontime
Ontime

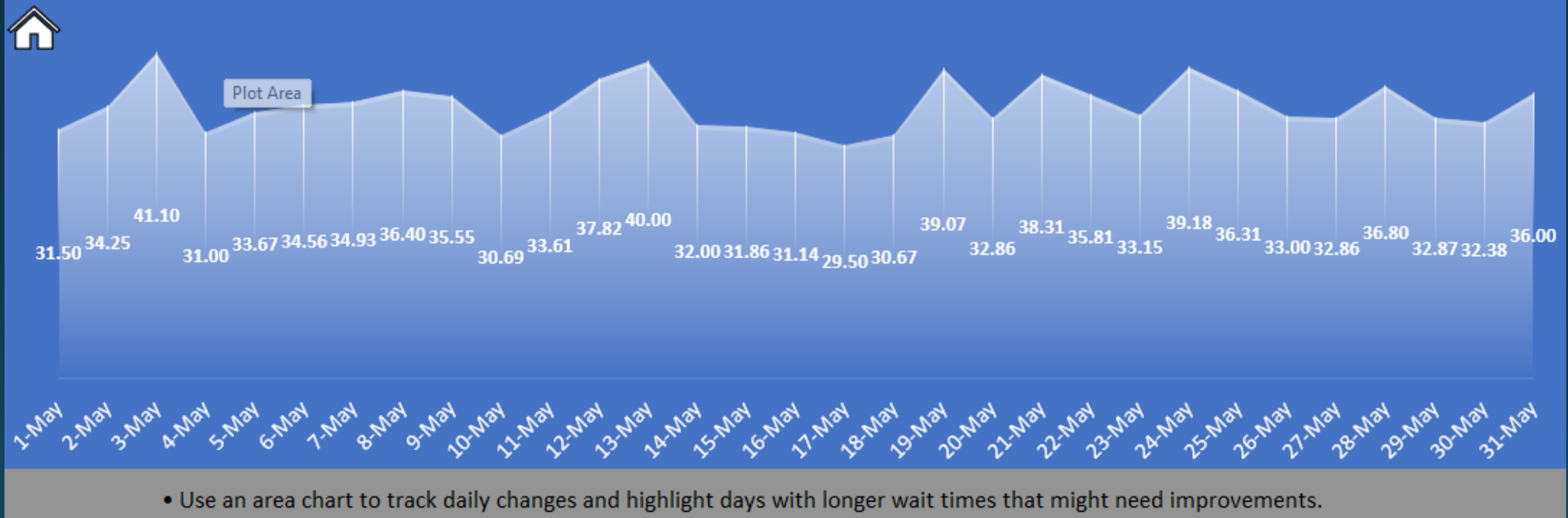
FINAL DASHBOARD



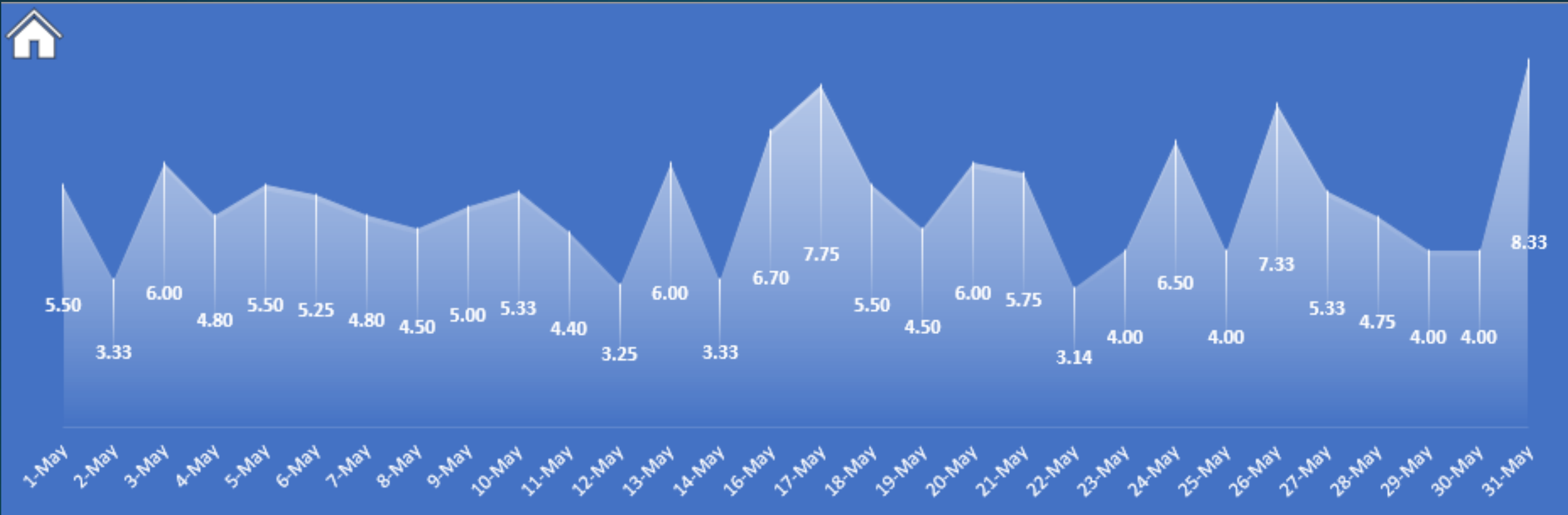
NUMBER OF PATIENTS



DAILY AVERAGE WAIT TIME



DAILY PATIENTS SATISFACTION SCORE



- Use an area chart to show trends, spot drops in satisfaction, and link them to busy times or challenges.

HOPE YOU GUYS LIKED THE PROJECT

THANK'S FOR WATCHING