

END TO END DASHBOARD PROJECT IN EXCEL



Hospital Emergency Room Dashboard

Monthly Report

Select Year

2023

2024

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

464



No. of Patients

35.19



Avg. Wait Time (Min)

5.09



Patient Satisfaction score

Admission Status

Patients

% of Total

Status in %

Not Admitted

233

50%



Admitted

231

50%



36

52

80

95

85

62

54

0-4

05-14

15-29

30-44

45-59

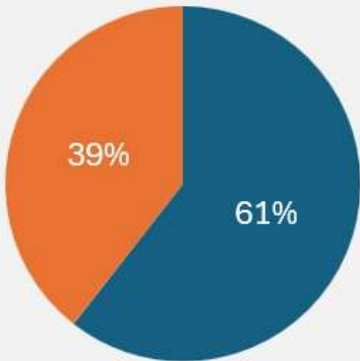
60-69

70-79

No. of patient by Age Group

Delay

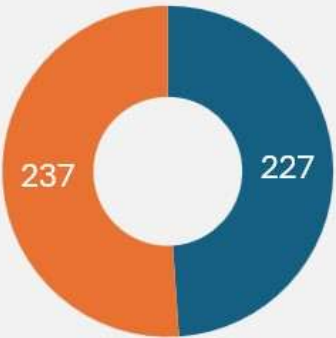
Within Time



Patients attended within Time

Female

Male



No. of Patients by Gender

None

252

General Practice

91

Orthopedics

67

Physiotherapy

19

Gastroenterology

14

Cardiology

13

Neurology

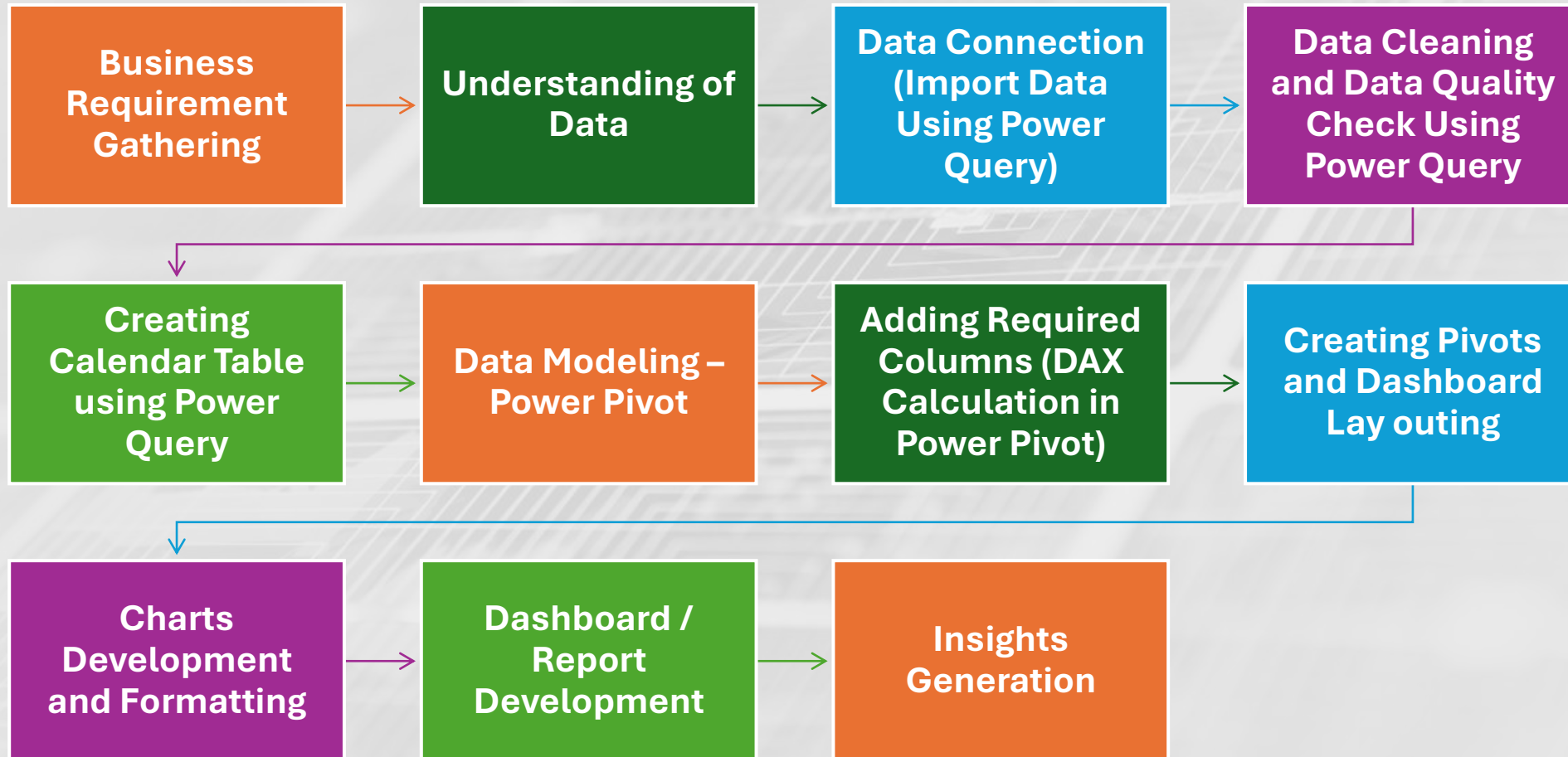
6

Renal

2

No. of patient by Department Referral

Project Steps



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.

KPI'S Requirement



Number of Patients:

Count the total number of patients visiting the ER each day.

Show a daily trend with an area sparkline to spot patterns like busy days or seasonal trends.



Average Wait Time:

Find the average time patients wait to see a medical professional.

Use an area sparkline to track daily changes and highlight days with longer wait times that might need improvements.



Patient Satisfaction Score:

Check the average daily satisfaction score of patients to assess service quality.

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

Charts to Create:

- Patient Admission Status:** Show how many patients 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.





Calendar Table Formula

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

DAX Formulas

- DAX Formula for Age Group :

```
=IF([Patient Age]>=70,"70-79",IF([Patient Age]>=60,"60-69",IF([Patient Age]>=45,"45-59",IF([Patient Age]>=30,"30-44",IF([Patient Age]>=15,"15-29",IF([Patient Age]>=5,"05-14","0-4"))))))))
```

- DAX Formula For Patient Attend Status :

```
=IF([Patient Waittime]<30,"Within Time","Delay")
```

FINAL DASHBOARD



Hospital Emergency Room Dashboard

Monthly Report

Select Year

2023

2024

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

464



No. of Patients

35.19



Avg. Wait Time (Min)

5.09



Patient Satisfaction score

Admission Status

Not Admitted

Patients

233

% of Total

50%

Status in %

Admitted

231

50%

36

52

80

95

85

62

54

0-4

05-14

15-29

30-44

45-59

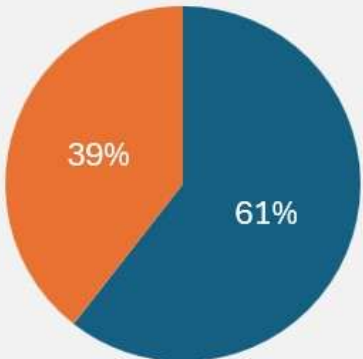
60-69

70-79

No. of patient by Age Group

Delay

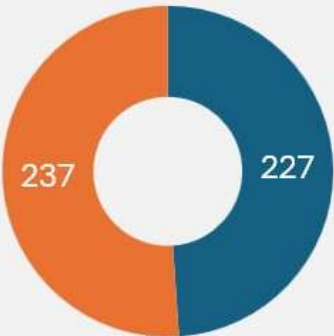
Within Time



Patients attended within Time

Female

Male



No. of Patients by Gender

None

252

General Practice

91

Orthopedics

67

Physiotherapy

19

Gastroenterology

14

Cardiology

13

Neurology

6

Renal

2

No. of patient by Department Referral