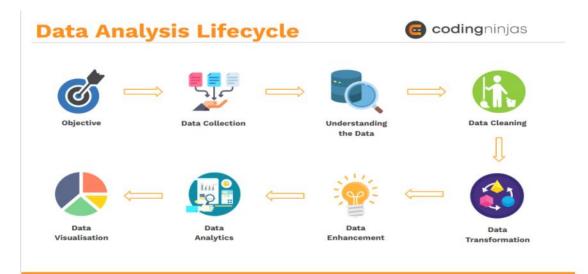
### Case Study: US Healthcare



The US healthcare department has shared the hospital data for 100 hospitals which includes data like patient information, their admission information and the insurance information. The top executives from the department have a few questions on the data and would like you to analyse and present your findings to them. The analysis should derive meaning actionable insights and the presentation should be clear, complete and concise.

#### **Problem Statement**

Analyzing the Impact of Demographics and Admission Types on Healthcare Costs and Outcomes

#### Objective I

Identify the most prevalent medical conditions within different demographic groups

# Understanding the data

- Creating a Data Dictionary
- Meaning of different attributes ChatGPT
- Demographic attributes
- Distribution of data
- Importance of sample size
- Sample size analysis
- Best Practice Documentation of all steps and observations

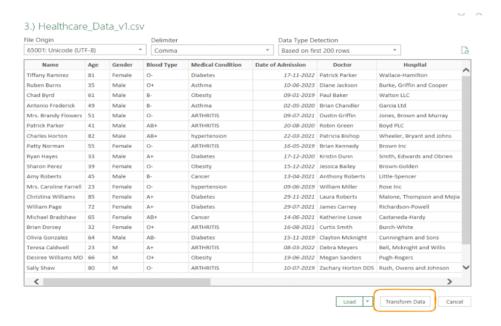
## Summary

- Data Analysis Lifecycle
  - Objective
  - Data Collection
  - o Understanding the Data
  - Data Cleaning
  - Data Transformation
  - Data Enhancement
  - Data Analytics
  - Data Visualisation

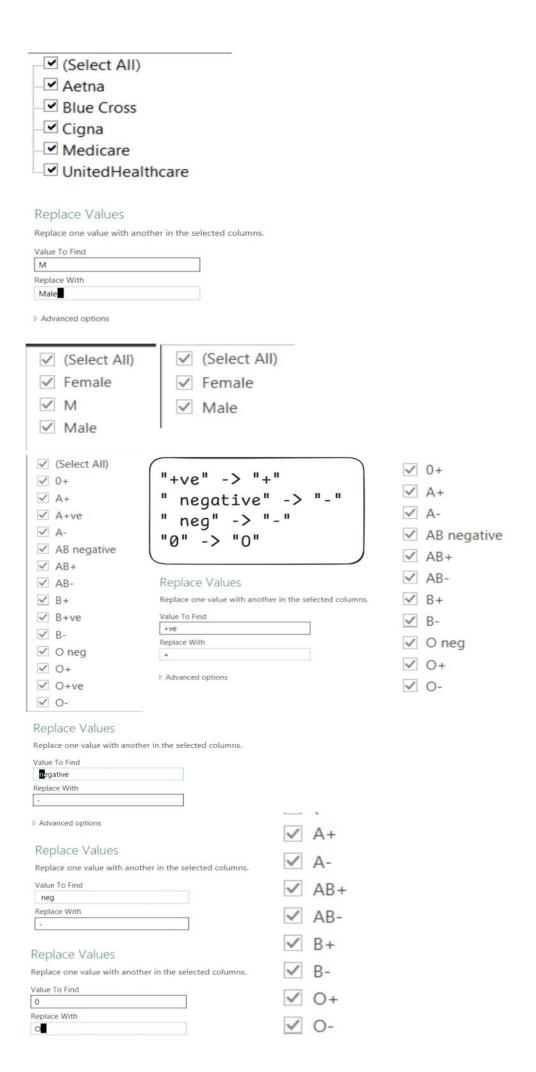
## What's Next?

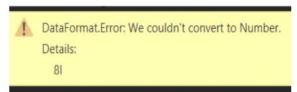


- Data Cleaning
  - o Identify inconsistencies in the data
  - o Fix inconsistent data
  - o NULL value removal
  - Data Formatting
- Pre processing
  - o Create additional columns required for analysis
- Excel Functions: DATE, LEFT, RIGHT, PROPER, UPPER, LOWER, ISBLANK, SPLIT\_TEXT



Health Insurance Portability and Accountability Act (HIPAA)

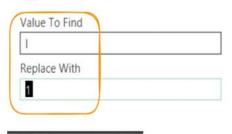




Age column having some character 1 -> I , error arise while changing the data type to whole number

## Replace Values

Replace one value with another in the selected columns.

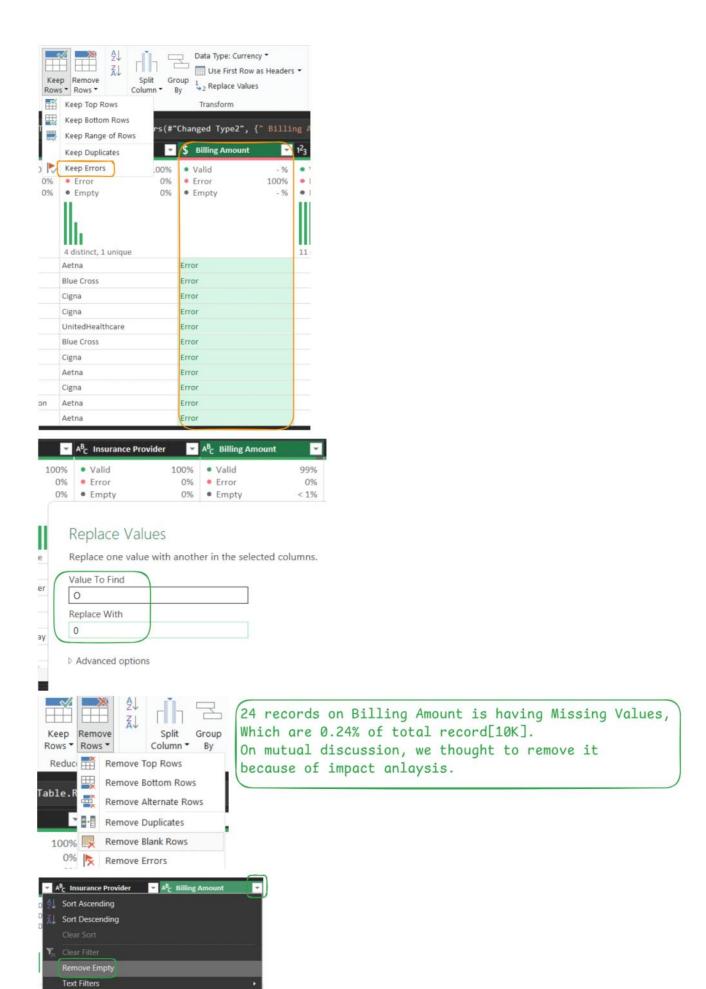


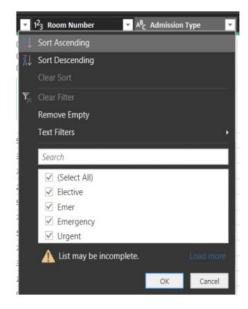
- ✓ (Select All)
- ✓ ARTHRITIS
- ✓ Asthma
- ✓ Cancer → Format it into Capitalize each word.
- ✓ Diabetes
- ✓ hypertension
- ✓ Obesity

Details: 64520



DataFormat.Error: We couldn't convert to Number.





### Replace Values

Replace one value with another in the selected columns.

Value To Find
Emer

Replace With
Emergency

Advanced options

