Dung Nguyen

Data Dashboard and Storytelling

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Part 1: Interactive Data Dashboard

A. Dashboard link:

[Executive Dashboard link](#)

1. Datasets:

- Medical_clean.csv (uploaded)

- Cms_Hospital_Patient_Satisfaction_Full.csv (uploaded) and link [U.S. Hospital Customer Satisfaction 2016-2020 | Kaggle](#)

Additional dataset cleaning step by using excel:

- Click on the link [U.S. Hospital Customer Satisfaction 2016-2020 | Kaggle](#)

- Download:

  cms_hospital_patient_satisfaction_2016

  cms_hospital_patient_satisfaction_2017

  cms_hospital_patient_satisfaction_2018

  cms_hospital_patient_satisfaction_2019

  cms_hospital_patient_satisfaction_2020

- Use Excel to combine all data from 2016-2020

- Remove all unnecessary columns, keep:

Address

City

County Name

Effectiveness of care national

comparison

Efficient use of medical imaging

national comparison

Emergency Services

Facility ID

Facility Name

Hospital overall rating

Hospital overall rating (num)

Hospital Ownership

Hospital Type

Meets criteria for promoting

interoperability of EHRs

Mortality national comparison

Patient experience national

comparison

Phone Number

Readmission national comparison

Safety of care national comparison

State

Timeliness of care national

comparison

Year

ZIP Code

Effectiveness of care national

comparison footnote

Efficient use of medical imaging

national comparison footnote

Hospital overall rating footnote

Mortality national comparison

footnote

Patient experience national

comparison footnote

Readmission national comparison

footnote

Safety of care national comparison

footnote

Timeliness of care national

comparison footnote

- Remove all duplicated rows.

- Save the file as Cms_Hospital_Patient_Satisfaction_Full.csv (Uploaded)

2. Installation:

The dashboard has been uploaded to Tableau Public. No need to install anything. Click on the link below to view the dashboard.

[Executive Dashboard link](#)

3. Navigate the dashboard:

Select the category menu

- Select State from the dropdown and click apply to view the specified State in all dashboards from the State dropdown menu.
- From the "Initial days by State" heat-map, click on a state to view specified state information in all other charts.
- We can also select the group of States to click on the dropdown list or Ctrl-click on the heat-map.
- View male elements from the Gender checklist by selecting the "male" gender icon in the gender menu; view numbers of female accounts by choosing the "female" gender icon in the gender menu.
- We can also select the group of Gender click on the checklist.
- View the tooltip information; move the mouse to the area you want to view.

Part 2: Storytelling with data

Panopto video recording of warning and error-free code execution to perform storytelling is uploaded to

Part 3: Reflection paper:

Please see a pdf attachment. "D210 Part 3 Reflection paper.pdf"

Part 4: Source

[1] The Hospitalist. (2015 October). 30-Day Readmission May Be Due to Income or Education.

https://www.the-hospitalist.org/hospitalist/article/122145/30-day-readmission-may-be-due-income-or-education

[2] Tableau. (n.d.). Data Storytelling. Data Storytelling with Tableau

[3] Tableau Desktop and Web Authoring Help. (n.d.). Filter Actions. Filter Actions - Tableau