

U.S. Chronic Disease Dashboard – Power BI Project

Project Overview

This project presents an interactive **Power BI dashboard** built to analyze **U.S. Chronic Disease data** across multiple demographics, including age groups, race/ethnicity, gender, and grade-level categories.

The dashboard helps uncover patterns, compare confidence interval limits, and understand trends in chronic disease occurrence from **2015 to 2022**.

Objective

To provide a clear visual understanding of chronic disease distribution across various demographic segments and support data-driven decision-making using Power BI.

Tools & Technologies Used

- **Power BI Desktop**
- **Power Query** for data cleaning and transformation
- **DAX (Data Analysis Expressions)** for custom measures
- **Data Modeling**
- **Excel/CSV Data Handling**
- **Data Visualization** (Bar charts, Pie charts, KPIs)

Dashboard Features

1 KPI Cards

- **Starting Year:** 2015
- **Ending Year:** 2022
- **High Confidence Limit Total:** 8.77M
- **Low Confidence Limit Total:** 7.02M

2 Bar Chart

- Displays **Count of LocationDesc** categorized by:
 - Age
 - Grade
 - Overall
 - Race/Ethnicity
 - Sex
- Helps compare chronic disease prevalence across demographic groups.

3 Pie Chart

- Shows distribution of:
 - Sum of High Confidence Limit
 - Sum of Low Confidence Limit
 - Sum of Location Count

- Helps evaluate reliability of data and relative proportions.

Key Insights

- Higher disease occurrence observed among **Black, Hispanic, and White non-Hispanic** groups.
- Significant variations across **age categories** such as 45–64 and 65+.
- Confidence interval visualization helps identify data reliability and estimate ranges accurately.

Project Structure

```
U.S._Chronic_Disease_Dashboard/
  └── Dashboard.pbix
  └── Dataset.csv
  └── README.md
  └── Screenshots/
    └── dashboard_preview.png
```

How to Use

1. Download the .pbix file.
2. Open it using **Power BI Desktop**.
3. Explore dashboard filters, visuals, and KPIs.
4. Modify the dataset if you want to customize insights.

Skills Demonstrated

- Data Cleaning
- Data Modeling
- DAX Calculations
- Dashboard Design
- Analytical Storytelling
- Exploratory Data Analysis (EDA)

Contact

If you have any questions or suggestions, feel free to reach out!

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Drive link for Data set:

https://drive.google.com/drive/folders/1UH0D1yY4dTCNiQce8JpYCBkLICV2dEDP?usp=drive_link