

PROJECT TITLE: DIABETES RISK AND HEALTH PATTERNS DASHBOARD

OBJECTIVE

To analyze diabetes status, health behaviors, and demographic patterns using power Bi. The goal is to provide actionable insights on diabetes prevalence and its health impacts

DATASET OVERVIEW

Source: BRFSS 2015

Size: 229, 781 rows and 25 columns

Key columns:

- Diabetes Status: (No Diabetes, Prediabetes and Diabetes)
- Age Group, Gender, Education, Income
- Physical Activity, Smoking, BMI
- Physical Health Days, Mental Health Days

TOOLS & SKILLS USED:

- Power BI (Data Modelling, DAX, Visualization)
- Data Cleaning (Power Query)
- Advanced Visualizations (Heatmap, Decomposition Tree)

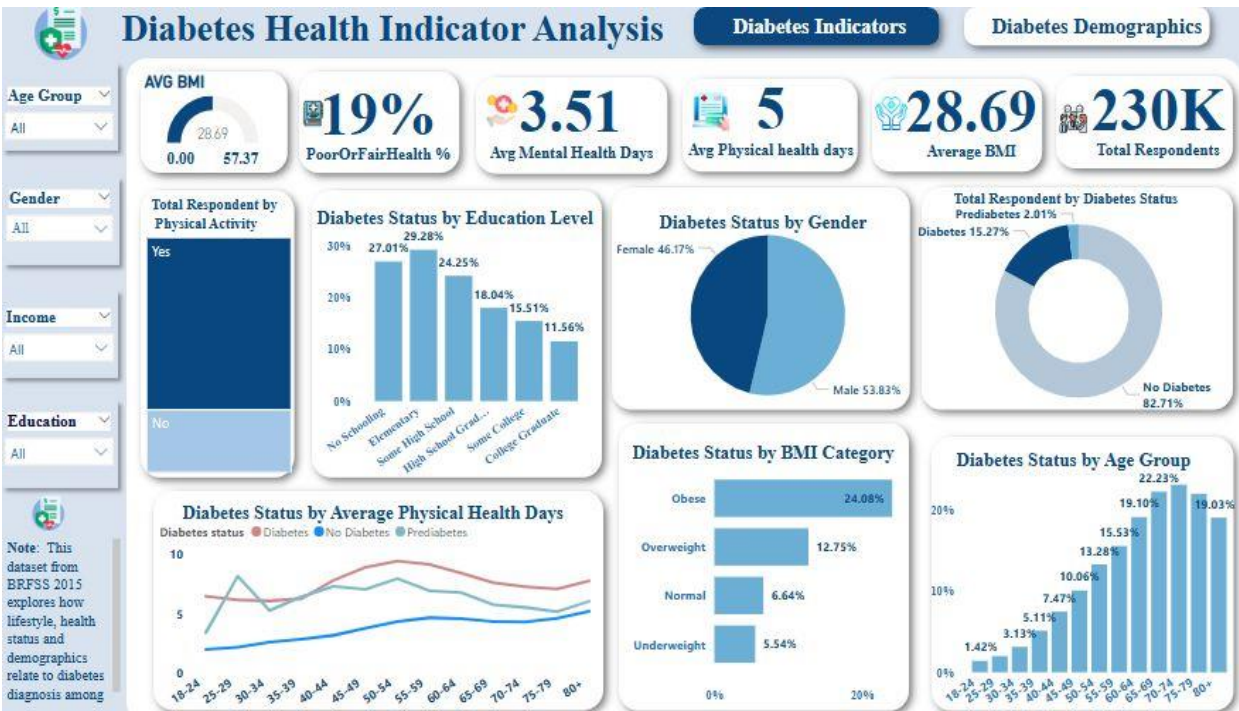
KEY INSIGHTS:

- ✓ **Mental Health Alert:** Mental health burden **rises significantly with age**, with **females aged 65+ experiencing the highest levels** - posing a double challenge and mental health deterioration
- ✓ **Behavioral Risks: Smoking Prevalence** is notably higher among **diabetes respondents**, especially **males and physically inactive groups**, exposing them to compounded health risks
- ✓ **Physical inactivity Crisis:** Over **60% of Diabetes respondents are physically inactive** making **lifestyle interventions critical to reversing this trend**

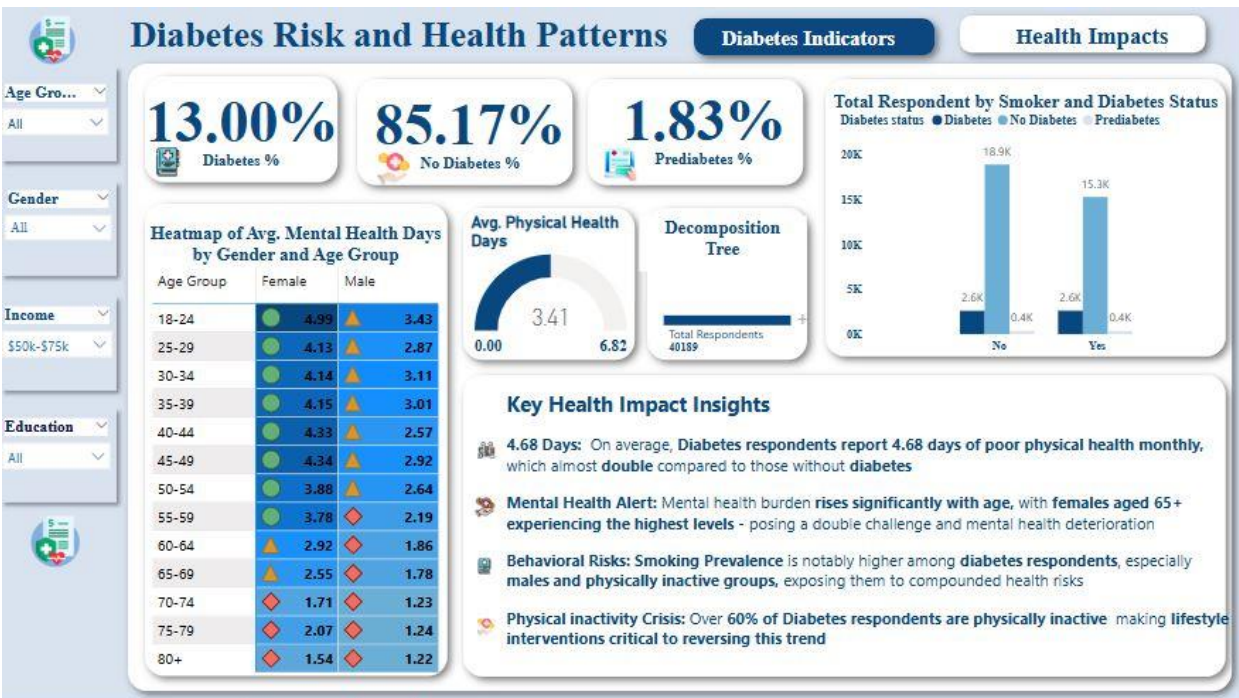
CHALLENGES FACED:

- Complex DAX calculations for custom KPIs
- Ensuring dynamic slicers affect multiple visuals across pages

DASHBOARD SCREENSHOTS



PAGE 1: DIABETES OVERVIEW AND DEMOGRAPHICS



PAGE 2: DIABETES HEALTH IMPACTS

CONCLUSION:

This power BI project showcases storytelling, advanced visuals, and health data analysis skills, providing a foundation for data driven decision-making in healthcare scenarios.