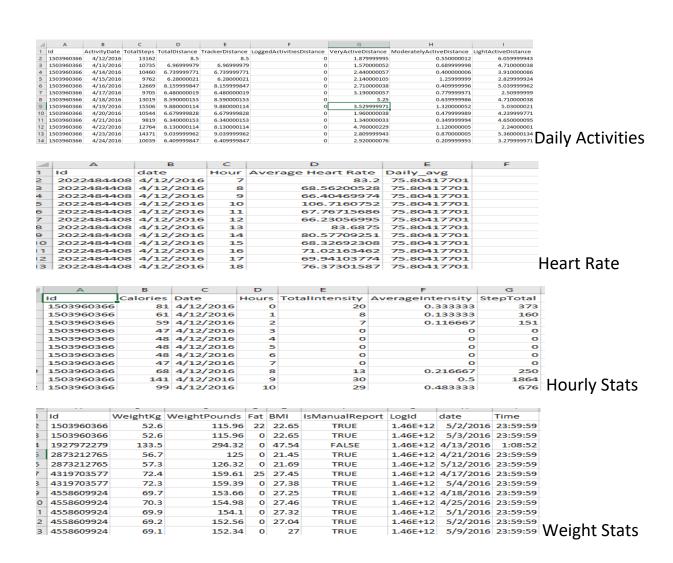
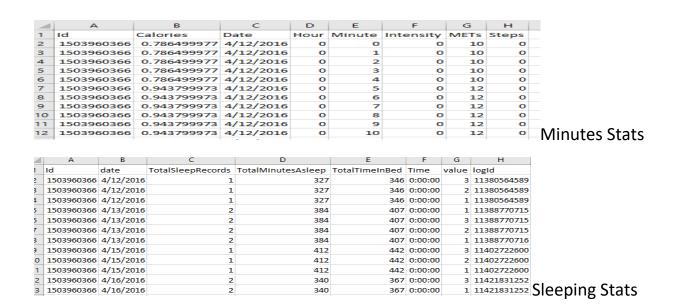
# Fitness Dashboard

Created by Kona Vagadheeswari

## **Data Collection and Cleaning**

- **Data Source Description**: Describe the dataset you're using, including its origin, structure, and key features such as physical activity, heart rate, and sleep data.
- **Data Cleaning Process**: Explain the steps you will take to clean the data, such as handling missing values, removing duplicates, and correcting anomalies.
- **Data Preparation**: Discuss any transformations or feature engineering you'll perform to prepare the data for analysis, like normalizing data, creating new variables, or encoding categorical variables.





### **Exploratory Data Analysis (EDA)**

- **Descriptive Statistics**: Begin with an overview of the distribution of physical activity, heart rate, and sleep monitoring data using summary statistics and visualizations.
- **Trend Identification**: Identify and document any noticeable patterns or anomalies in the data, using visual aids like histograms, box plots, or time series plots.

### **Consumer Behavior Trends Analysis**

- Trend Analysis: Analyze trends in physical activity, heart rate, and sleep patterns, focusing on peak activity times, common sleep durations, and heart rate variations.
- **Demographic Variations**: Investigate how these trends differ across various demographic groups, if applicable, such as age or gender.
- **Behavioral Insights**: Summarize the insights gained from these trends and their potential implications for consumer behavior.

## **Implications for Customers**

- **Health Impact Analysis**: Discuss what the identified trends mean for users' health and wellness, backed by your analysis.
- **Lifestyle Recommendations**: Suggest how users might optimize their Fitbit usage to improve health outcomes based on the trends.
- **Potential Challenges**: Address any challenges or limitations that Fitbit users might face in adapting to these trends.

#### Visualization and Tableau Dashboard

- **Visualization Planning**: Plan the key visualizations that will be included in your Tableau dashboard, ensuring they effectively convey the trends and insights discovered.
- **Dashboard Design**: Design the dashboard to be user-friendly and visually appealing, using appropriate charts and graphs.
- **Integration of Insights**: Ensure that all key findings and recommendations are clearly represented on the dashboard for easy interpretation.

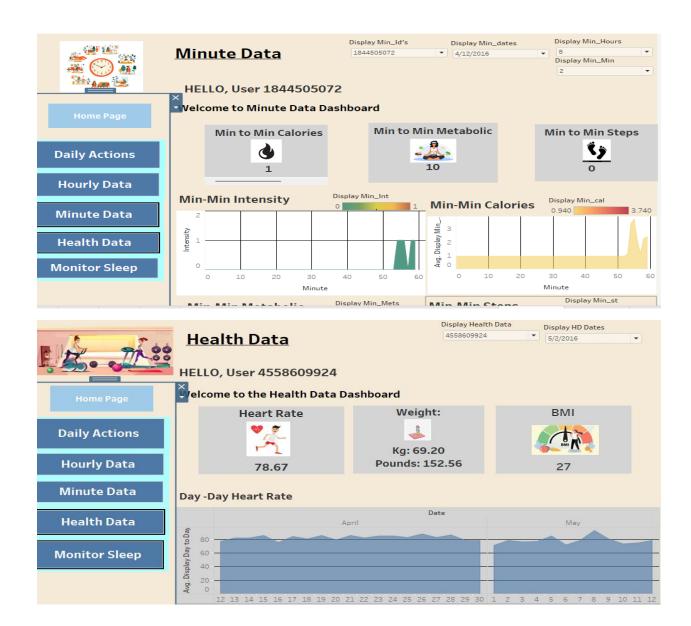
#### Public Dashboard:

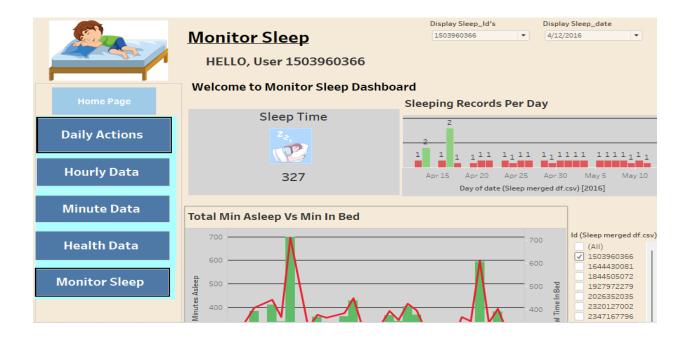
https://public.tableau.com/app/profile/kona.vagadheeswari/viz/FitnessDashboard\_17240811643300/Dashboard1











## **Conclusion and Final Report Compilation**

- **Summary of Findings**: Provide a brief summary of the key insights and conclusions drawn from your analysis.
- **Final Recommendations**: Restate the marketing strategies and customer implications, emphasizing their importance.
- **Document Formatting**: Ensure the Word document is well-structured, with consistent formatting, headings, and clear visuals.