

Lego Set Explorer

Objective:

To develop an interactive Power BI dashboard that enables users to explore and analyse various LEGO sets based on categories such as theme, age range, number of pieces, and price. This dashboard assists LEGO enthusiasts, collectors, and buyers in filtering and comparing sets with ease.

Dashboard Overview: The LEGO Set Finder dashboard is divided into multiple pages:

1. Lego Set Finder Page

- **KPI Cards:**
 - **Total Sets:** Shows the total number of LEGO sets available (4,385).
 - **Average Pieces:** Displays the average number of pieces across sets (411).
 - **Average Price:** Highlights the average price (\$45).
- **Filter Options:**
 - Select Theme Group
 - Select Theme
 - Select Age Range
 - Price range slicer
- **Action Buttons:**
 - Reset Filter
 - Explore Sets
- **Data Table:**
 - Displays set details like Set ID, Name, Theme, Age Range, Sum of Pieces, Avg Price, and Price Range.
- **Tooltip Image Viewer:**
 - Dynamically shows an image of the selected LEGO set along with key details like year, pieces, and age.

2. Lego Image Tooltip Page

- Displays the set's image when hovered over or selected from the main dashboard.
- Enhances the interactivity and experience for the user.

3. Sets Explorer Page

- **Decomposition Tree Visual:**
 - Enables users to drill down through categories like Category → Theme Group → Theme → Name.
 - Highlights the distribution of sets across multiple dimensions.
 - Filters like "Star Wars", "Licensed", and "Normal" are applied.

Conclusion:

This Power BI dashboard allows users to effectively analyse and explore LEGO sets. It serves both as a decision-support tool for buyers and a visual aid for collectors. The interactive nature and detailed visual breakdown make the experience engaging and user-friendly.