GitHub User Data Analysis Report in Power-Bi

Here I am Explaining the steps involved in creating a Power-BI Report.

1. Data Preparation:
   a. Gather the necessary data for user profiles, including their profile URL, name, login name, number of repositories created, number of repositories forked, lines of code added/removed in forked repositories, and lines of code added/removed in created repositories.
   b. Ensure the data is structured properly and that you have appropriate relationships established between different data tables if you're using a relational database.

2. Create User Profile Page:
   a. Design a page in Power BI to display user profile information such as name, profile URL, number of repositories created, number of repositories forked, etc.
   b. Add visualizations such as cards, tables, or matrices to represent this information clearly.

3. Page Navigation Button:
   a. Create a button on the user profile page that allows users to navigate to the repo analysis page.
   b. This button should be configured to navigate to the repo analysis page when clicked.

4. Repository Analysis Page:
   a. Design a separate page in Power BI for repository analysis.
   b. Display line graphs showing the number of lines of code added/removed in forked and created repositories over each year.
   c. Use appropriate visualizations to effectively represent this data, such as line charts or area charts.
   d. Include a funnel chart to visualize the distribution of commits across different programming languages.

5. Testing and Refinement:
   a. Verify that all visualizations are displaying the intended data accurately.
   b. Refine the report layout and design as needed for clarity and aesthetics.

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