DATA PROFESSIONALs SURVEY REPORT

PROJECT SCENERIO:

This project provides a comprehensive analysis of the salaries of data professionals across the globe, based on a survey of approximately 630 participants. The survey covered a range of topics, including age, salary, profession, work-life balance, country of residence, and gender. The results of this survey offer valuable insights for both current data professionals and those considering a career in this field.

Skills demonstrated:

some of the skills demonstrated for a data professionals survey report are:

- Data acquisition: Obtained the data through online survey.
- Data transformation: I have cleaned, filtered, and transformed data using POWER BI.
- Data modeling: I designed and implemented a data model that represents the relationships and attributes of the data entities, such as Their age, salaries, professions, work/life balance, happiness rate, gender and country.
- Data analysis: Performed in-depth data analysis using DAX queries, such as aggregating, grouping, sorting, filtering, and joining data.
- Data visualization: Created interactive and informative visualizations using POWER BI, a business intelligence tool for creating reports and dashboards.
- Data interpretation: Derived insights and recommendations from the data analysis and visualizations.
- Communication: Able to present and communicate the data analysis and visualizations in a clear and concise manner, using appropriate language, format, and style.

Tools used:

MS OFFICE/ EXCEL: VERSION 2016

Power BI JUNE 2023 VERSION.

Key findings from the survey include:

- **Average Age**: The survey provided insights into the average age of data professionals is approximately 29.
- **Salary**: The survey revealed the average salary of members by their profession.
- **Profession**: The survey identified the various professions within the data field represented by the respondents.
- **Work-Life Balance**: The survey explored the work-life balance of data professionals, providing a glimpse into their job satisfaction and lifestyle.
- **Country and Gender**: The survey also highlighted the geographical distribution of data professionals and examined gender representation in the field.

Transform the data

This is raw data and needed to be transformed first, and for this I took some steps for cleaning the data are as follows:

- At first I have removed the unwanted columns (blanked columns).
- Reduced options from (which title suites the best) using split option.
- I repeated the process for (what industry do you work in , and (which is your fav programming language).
- I created duplicate column for the salary and trimmed the salary parts.
- I created a column with name average salary from custom column option and then created AVG salary by adding the 2 column and dividing with 2.
- I deleted the duplicate columns and moved AVG column next to the salary column.

After some cleaning I created report as follows:

Analyze and visualize the data:

- I used card to show the total members who took the survey by selecting the count of unique ids.
- I calculated the average age of the professionals by using simply selecting the age and choose the option average by right clicking from data tab.

- Similarly, I used the clustered bar chart to calculate the average salary by profession.
- I used the donut chart to find the average salary by gender.
- I used stacked column chart to find the favorite programming language of the data professionals.
- I used the tree map to show which countries have the members who took the survey.
- I used the gauge to show the happiness level and their work/life balance.