**Project Title:** Job survey breakdown

(Unveiling Job Satisfaction, Salaries, and Exploring Work-Life Balance)

**Executive Summary:** The Power BI project aimed to analyse survey data collected through an online form, focusing on respondents' jobs, salaries, job satisfaction, and work-life balance. The report includes data cleaning and transformation steps to ensure data accuracy and reliability. Key findings include insights into job ratings, average salaries, preferred programming languages, and perceptions of job difficulty.

**Introduction:** The survey gathered responses from 630 participants of varying genders and age groups. The average age of respondents was 29. The primary objectives were to analyse job satisfaction, salary perceptions, and work-life balance.

**Data Collection Method:** Survey responses were collected via an online form.

**Data Cleaning & Transformation**

* Removed unwanted columns: Eliminated irrelevant or redundant data columns.
* Deleted blank rows: Ensured data integrity by removing empty or incomplete responses.
* Addressed missing values: Imputed or dropped missing values as necessary.
* Ensured appropriate data types for each variable (e.g., converting numerical values, dates).
* Utilized Power Query in Excel and Power BI for data cleaning and transformation.
* Applied filters and removed outliers to enhance data quality.
* Introduced new calculated measures for specific analyses, such as average salary ratings.

**Demographics**

* Gender Distribution By Salary

49.2% Male

50.8% Female

* Geographic Distribution

United States: 261 respondents

Others: 224 respondents

India: 73 respondents

United Kingdom: 40 respondents

Canada: 32 respondents

* Overall Job Satisfaction

Average Job Satisfaction Rating: 5.74 (on a scale of 1 to 10)

Average Satisfaction with Salary Rating: 4.27 (on a scale of 1 to 10)

**Job Analysis**

* Job Categories

Data Scientist

Data Engineer

Data Architect

Data Analyst

Database Developer

Students

Others

* Average Salary Ratings

Data Scientists: $93.78 thousand (highest)

Data Engineers: $65.09 thousand

Data Architect: $63.67 thousand

Others: $60.49 thousand

Data Analyst: $55.30 thousand

Database Developer: $33.20 thousand

Students/Looking/Noon: $26.58 thousand (least)

* Programming Language Preferences

Python: 420 respondents voted (highest)

R: respondents voted

Other: respondents voted

C/C++: respondents voted

JavaScript: respondents voted

Java: 1 respondent voted (least)

* Perceived Job Difficulty

Neither Easy nor Difficult: 42.7% (highest)

Difficult: 24.76%

Easy: 21.27%

Very Difficult: 6.98%

Very Easy: 4.29% (least)

**Tools Used**

* Microsoft Excel: For initial data cleaning and exploration.
* Power BI: For advanced data cleaning, transformation, and visualization

**Conclusion**

The project provided valuable insights into job satisfaction, salaries, and perceptions of job difficulty among survey respondents. The inclusion of data cleaning processes ensured data accuracy and reliability. Data scientists emerged with the highest average salary rating, and Python was the most-voted programming language. The findings will assist in understanding the preferences and challenges within the surveyed population, guiding future decisions and strategies.

**Recommendations**

Based on the analysis, consider addressing specific areas identified as challenging or less satisfying to improve overall job satisfaction and engagement. Additionally, focus on promoting the learning and adoption of Python, given its popularity among respondents.

**Next Steps**

Further analysis could explore correlations between job satisfaction, salary perceptions, and other demographic factors. Continuous monitoring of these metrics will help track changes over time and inform ongoing improvements in the work environment.