

Technology Survey

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OUTLINE



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- Methodology
- Results
 - Visualization Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
- Appendix

EXECUTIVE SUMMARY



- Data was collected from the sources on the internet
- Data Wrangling was done
- Finding Duplicates values
- Removing Duplicates
- Finding Missing values
- Imputing Missing Values
- Finally Normalizing the Data
- After Data Cleaning it was used for generating our findings and visualizations were presented to show its implications.

INTRODUCTION



The Analysis has been done to find:

- What is Current Technology usage
- What are the Future Technology Trends
- What way Demography impacts IT Trends

METHODOLOGY



1) The data used for my analysis has been downloaded from the internet site as shown below:

https://stackoverflow.blog/2019/04/09/the-2019-stack-overflow-developer-survey-resultsare-in/ under a

ODbL: Open Database License

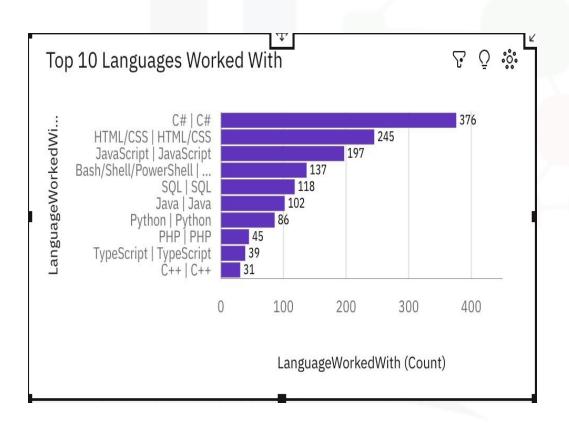
- 2) The data is a modified version of the original data to perform the analysis. There are two datasets which were used for the visualizations
 - a) m5_survey_data_technologies_normalised.csv
 - b) m5_survey_data_demographics.csv

RESULTS

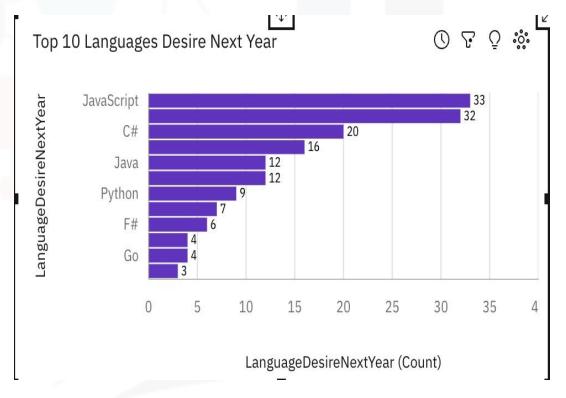
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PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year





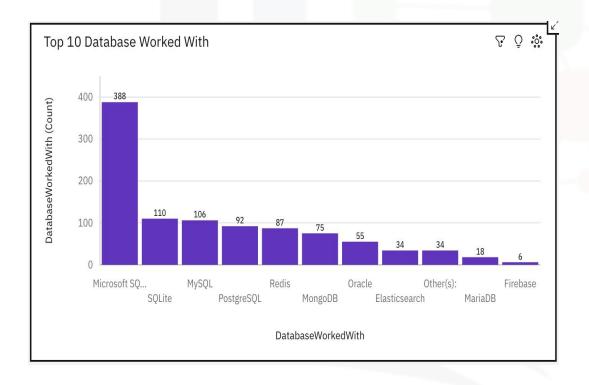
PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

- The count is unusually high when LanguageWorkedWith -LanguageWorkedWith is C#|C#.
- C#|C# is the most frequently occurring category of LanguageWorkedWith -LanguageWorkedWith with a count of 376 items with LanguageWorkedWith values (27.3 % of the total).
- The total number of results for LanguageWorkedWith, across all LanguageWorkedWith - LanguageWorkedWith, is almost 1500.

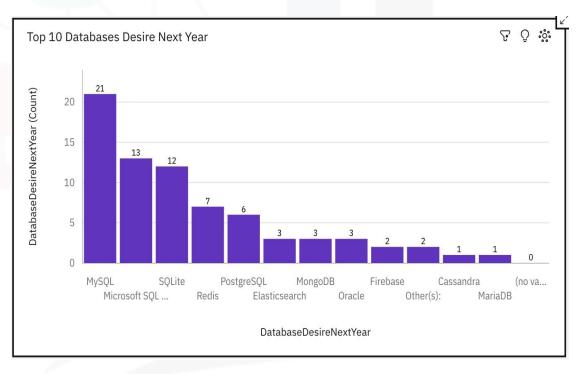
- The counts are most unusual when the values of LanguageDesireNextYear are JavaScript, HTML/CSS and Kotlin.
- JavaScript (20.9 %) and HTML/CSS (20.3 %) are the most frequently occurring categories of LanguageDesireNextYear with a combined count of 65 items with LanguageDesireNextYear values (41.1 % of the total).
- The total number of results for LanguageDesireNextYear, across all LanguageDesireNextYear, is 158.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

The count is unusually high when DatabaseWorkedWith is Microsoft SQL Server.

- Microsoft SQL Server is the most frequently occurring category of DatabaseWorkedWith with a count of 388 items with DatabaseWorkedWith values (38.6 % of the total).
- The total number of results for DatabaseWorkedWith, across all DatabaseWorkedWith, is over a thousand.

The counts are unusually high when the values of DatabaseDesireNextYear are MySQL and Microsoft SQL Server.

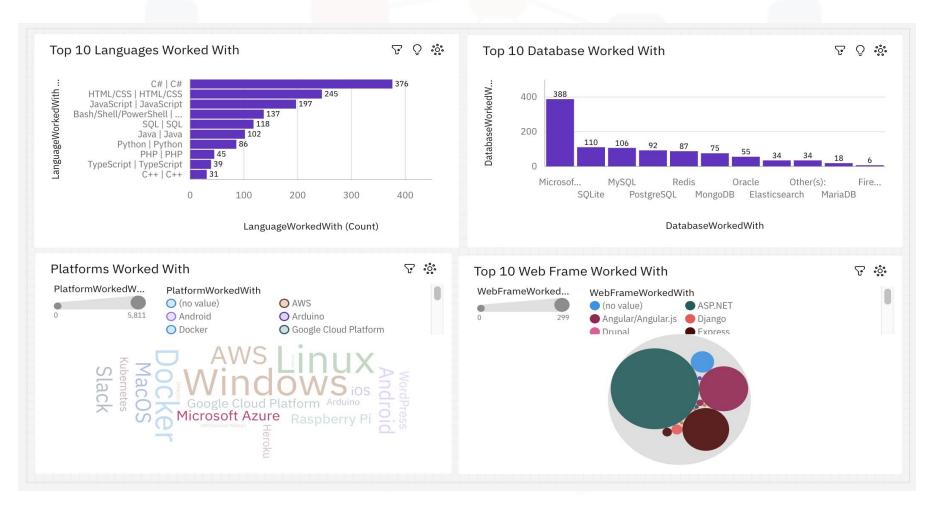
- MySQL is the most frequently occurring category of DatabaseDesireNextYear with a count of 21 items with DatabaseDesireNextYear values (28.4 % of the total).
- The total number of results for DatabaseDesireNextYear, across all DatabaseDesireNextYear, is 74.

DASHBOARD

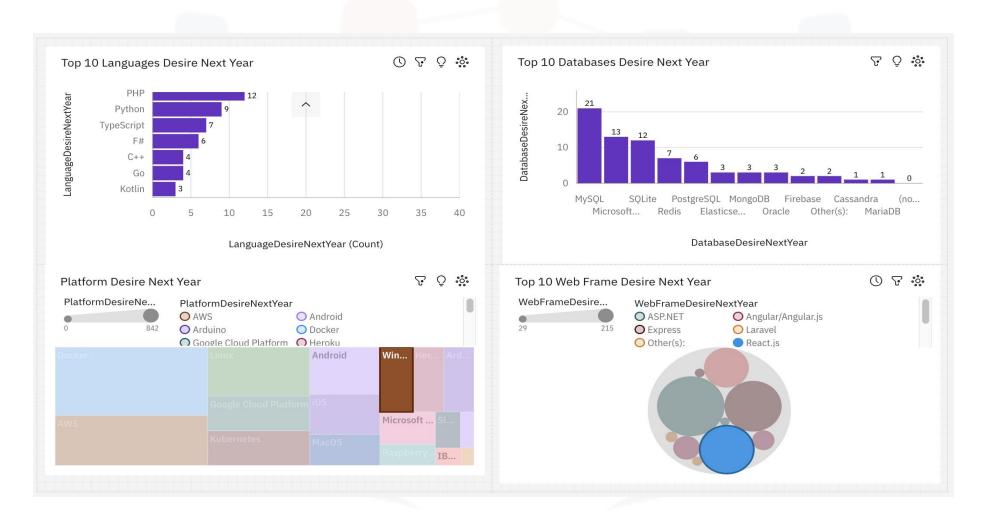


https://github.com/manishasans/MYDashboard/blob/main/Manisha%20Dashboard.pdf

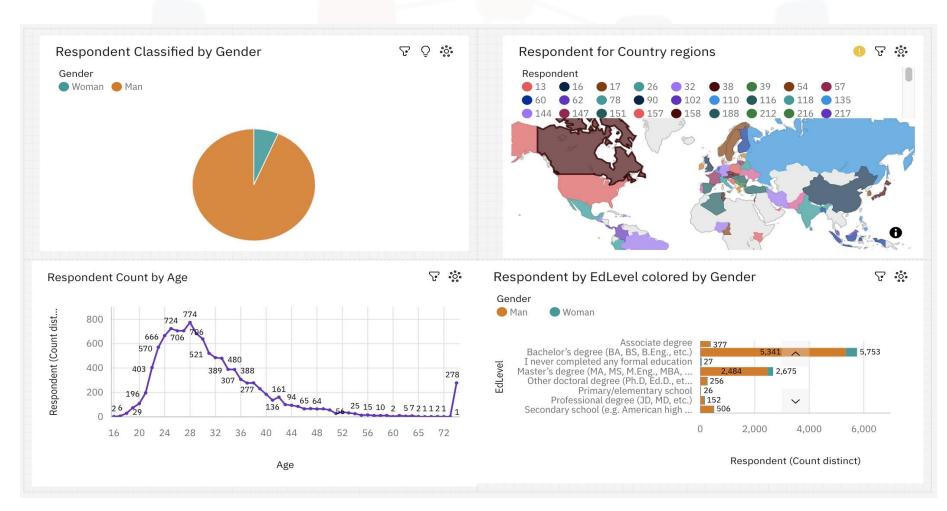
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- C# and Microsoft SQL Server are currently trending
- PHP and MySQL are desired future technology trends
- Men are more prone to study Technology than Women

Implications

- Technology is transient and change very often
- Not just the languages but also the databases used change over time
- The technology trends is a global phenomena

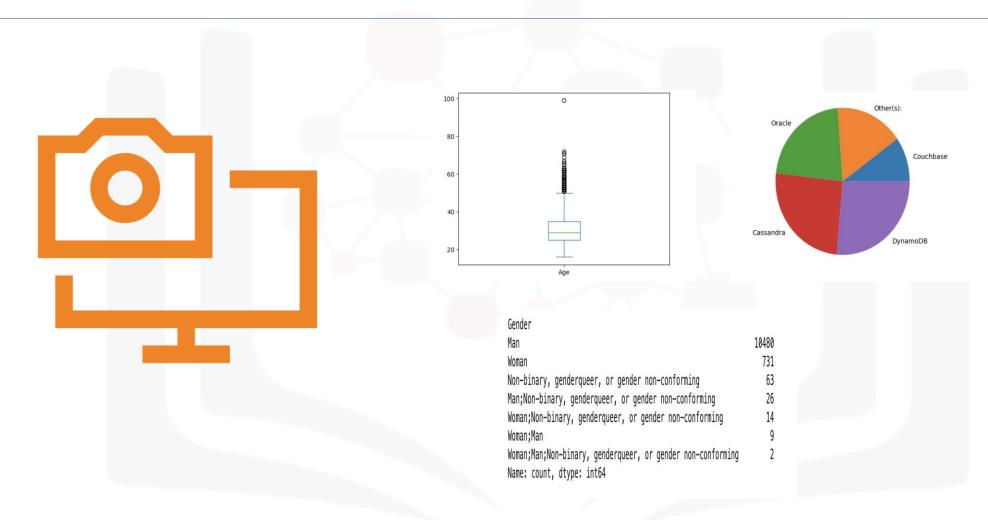


CONCLUSION



- Most popular language will be PHP
- MySQL will be trending in the future with respect to Databases usage
- Amazon Web Server will be the trend in future
- FrameWork such as ASP.net will continue to rule

APPENDIX



POPULAR LANGUAGES

