IBM Data Analyst Capstone Project



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OUTLINE



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EXECUTIVE SUMMARY



- This report has been created to summarize the findings found in the data analysis conducted in the technology survey.
- The following data analysis is based on two surveys of technological and demographic data. Two subsets of data which attempt to identify future technological trends.
 - Current Technology Usage
 - Future Technology Trend
 - Demographic

INTRODUCTION



- This report attempts to identify current technologies and future technology trends.
- This report can be used to learn more about current and future trends as well as technologies that are already becoming obsolete.
- The report shows opinions on technological trends according to demographic data such as:
 - Gender
 - Age
 - **Educational level**
 - Geographical position

METHODOLOGY



- Data collection: The Data used in this presentation has been collected from 2 different sources.
 - m5_survey_data_demographics.cvs
 - m5_survey_data_technologies_normalized.cvs
- Data wrangling: The subset data was wrangled to remove duplicates values, remove missing values and normalizing data.
- Data visualization: Looker studio was used to creates Dashboard.

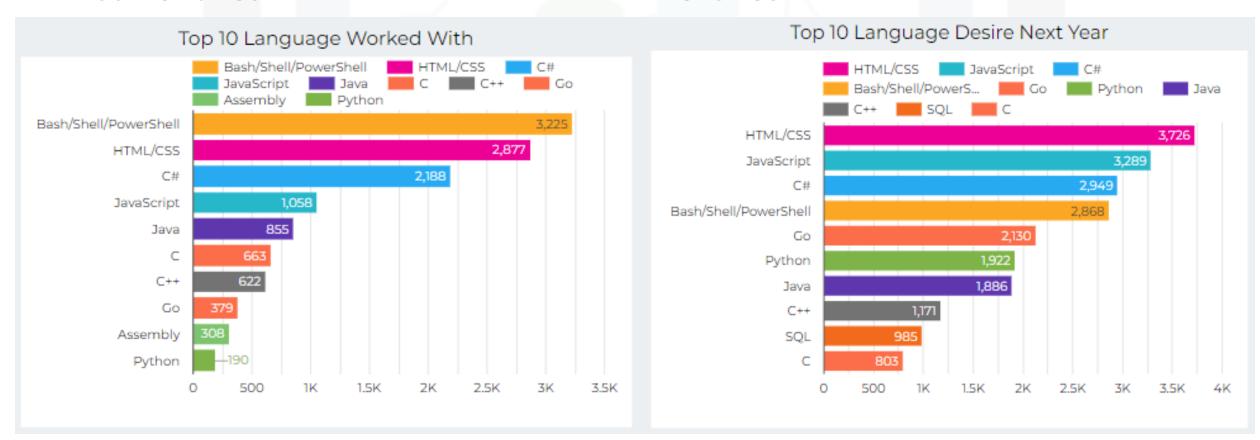
RESULTS



PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

 Bash / Shell / PowerShell, html / CSS are the popular languages among developers

Implications

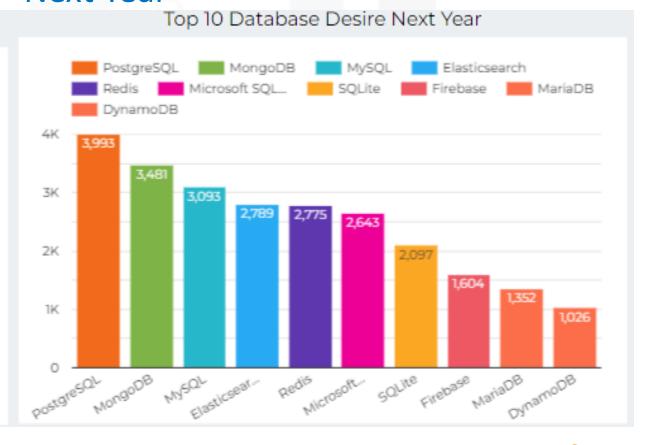
 Due to the growth of the Internet, web page programming languages have increased.

DATABASE TRENDS

Current Year

Top 10 Database Worked With SOLite 2K 1.5K 500 DB Firebase Oracle SQLite

Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

 Currently the biggest trend in Databases is positioned by Microsoft SQL and MySQL. But it is expected that this trend will lean towards new technologies such as: PostgreSQL and MongoDB.

Implications

 The development of new technologies has allowed a wide margin to grow in Databases, so it is expected that the trends will change towards new technologies.

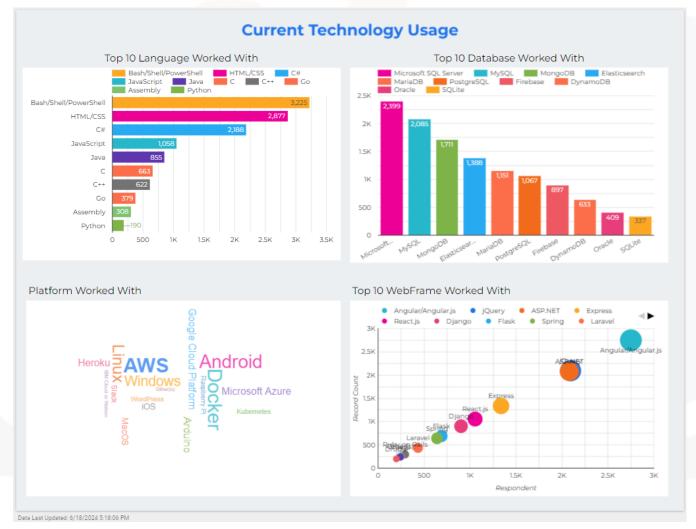


DASHBOARD

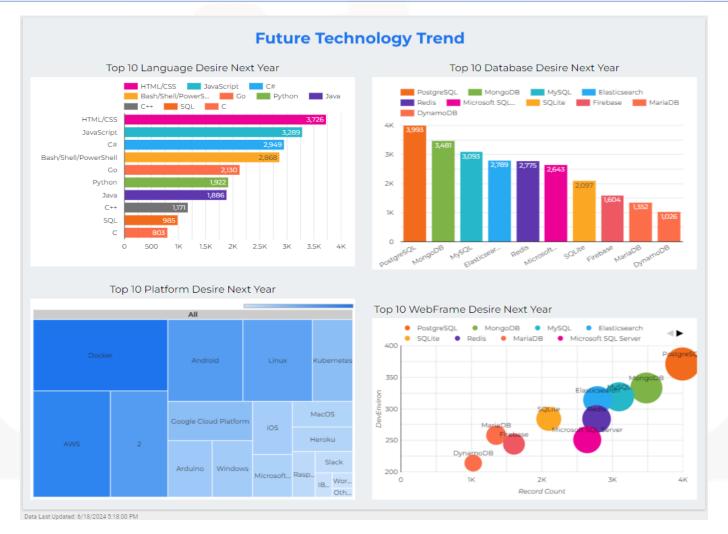


https://github.com/ChristianRod2178/IBM-Capston/blob/075b54f332d4b37d4a84095dec1911589a68c202/Dashboard%20Part%20B.pdf

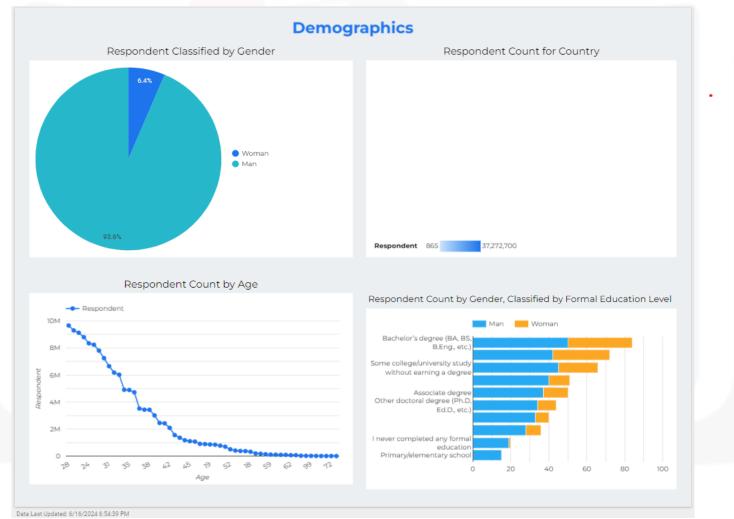
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



CONCLUSION



 New technologies are gradually displacing more obsolete technologies.

POPULAR LANGUAGES

