

<To Analyse and Create
Dashboard from Stack
Overflow Developer Survey
2019 >

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<04/03/2024>

OUTLINE



- Executive Summary
- Introduction
- Metho lology
- Results
 - Visualization Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
- Appendix
- Bar Plot- Job Posting and Popular Language

EXECUTIVE SUMMARY



- Data analysis and visualization on IBM Cognos Analysis
- Methodology Description
 - Data gathering
 - Data analysis
 - Data visualization
- Results are showed base on graph and trends
- Discuss the results based on findings
- Conclusion have been presented here based on findings

INTRODUCTION



- The people who are like to code Stack Overflow's Annual Developer survey is the most popular one
- Almost 90,000 developers
- There is lack of trend for analysis the developer trend
- Need to find out where this trends going on
 - Next popular programing language and database
 - Characterization around the globe

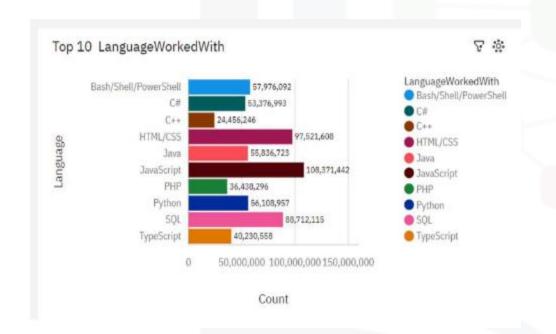
METHODOLOGY



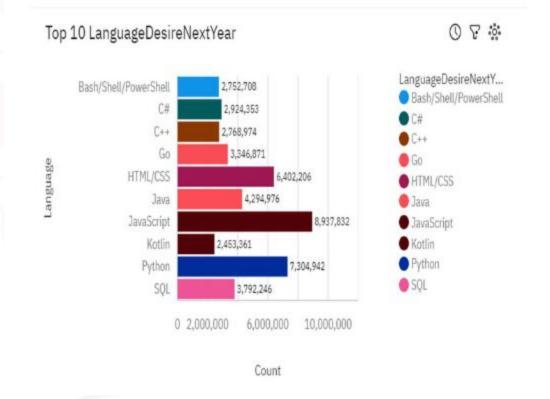
- Collection of survey data and explore the feasibility
 - Web Scraping
 - APIs
 - Request library
- Data wrangling
- Exploratory data analysis
- Data visualization
 - IBM cognos analysis create dashboard
 - Make 3 individual tabs for display data according to requirements

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year





PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

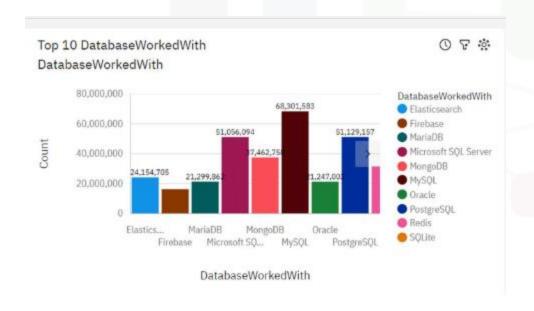
- The most popular programing language - JavaScript
- 2nd programming— HTML /CSS
- Lowest for C++

Implications

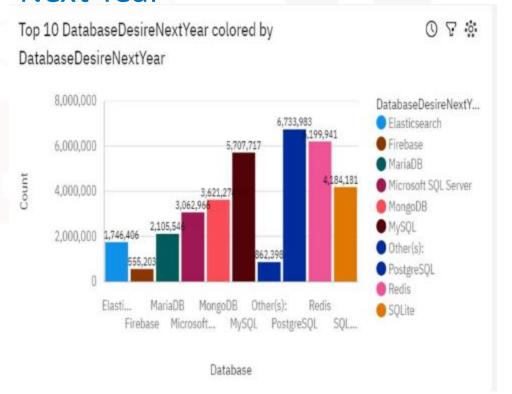
- 1st increasing trend for **JavaScript**
- Most popular will be Python
- 3rd increasing trend -HTML/CSS

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Most used database-MySQL
- Growing interest-PostgreSQL
- Less interest-Oracle

Implications

These three databases will be popular on next year

- PostgreSQL
- Redis
- MySQL

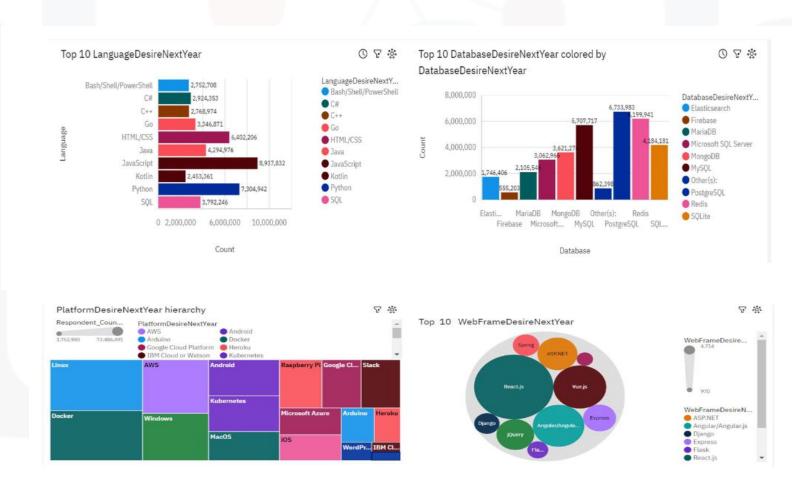
DASHBOARD



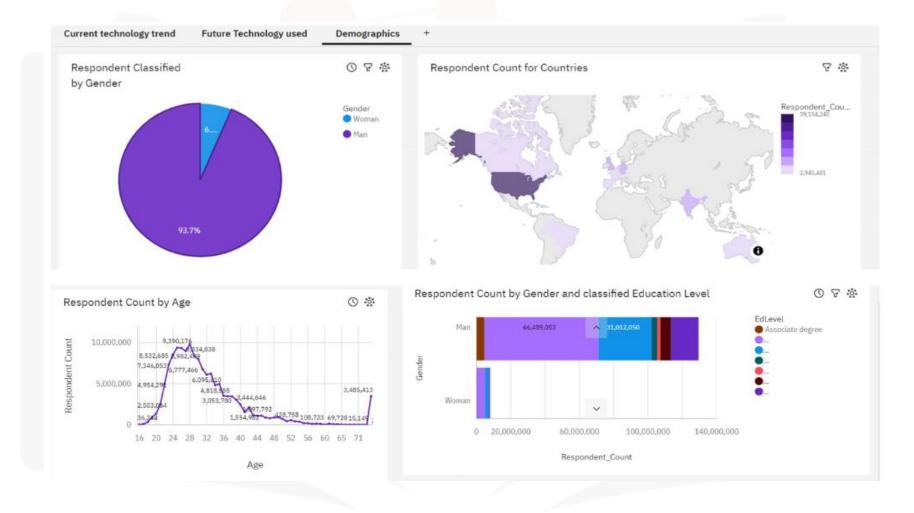
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- The most popular programming language - JavaScript
- The most popular database-MySQL
- 93% developer -Male

Implications

- Need to create environment to learn JavaScript for making more developers
- Need to increase more job opportunity for MySQL developers
- Increase opportunity to learn programming for female

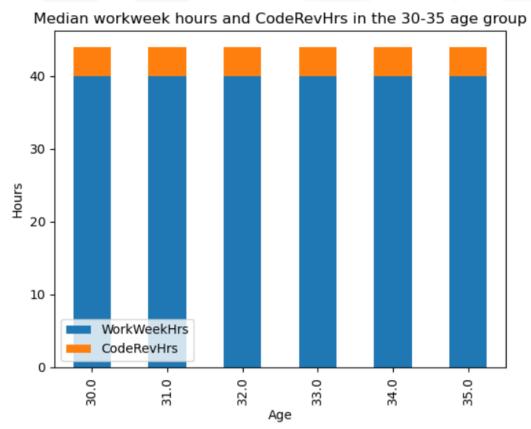
CONCLUSION

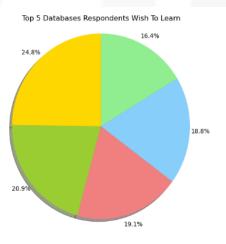


- To create more developer for programming
- To create more job market for JavaScript developers
- To spread the language popularity trends to next generation
- To encourage female to learn programing

APPENDIX

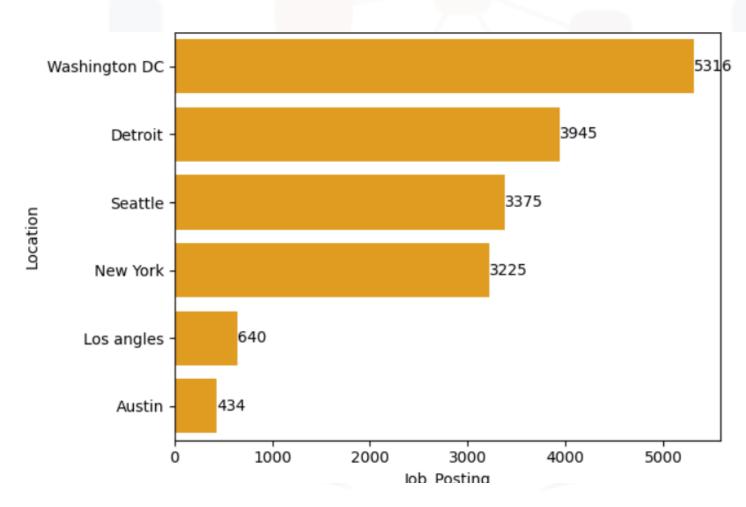






SKILLS NETWORK

JOB POSTINGS



POPULAR LANGUAGES

