

Programing Skill Market Analysis

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OUTLINE



- Executive Summary
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- Metholology
- Results
 - Visualization Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
- Appendix

EXECUTIVE SUMMARY



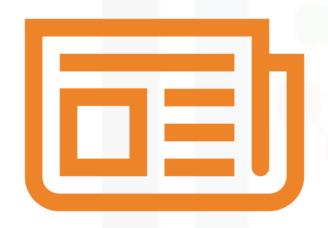
- Collecting programming techniques, personal information from various programmers
- Wrangling and explore data
 - Deal with missing, duplicated, outlier data, and normalize data
 - Find the relation between different features.
- Analyzing data and identify insights and trends
 - The top 10 languages
 - The top 10 database
 - The popular programming tools
- Building a dashboard based on the analysis by cognos analysis

INTRODUCTION



- To keep pace of the development of techniques is significant for IT careers
- Focus problems
 - What are the popular programming tools in the present
 - What are the popular programming tools in the future

METHODOLOGY



- Data collecting
- Data wrang
- Exploratory data analysis
- Data visualization
- Building a dashboard

RESULTS

Current techniques

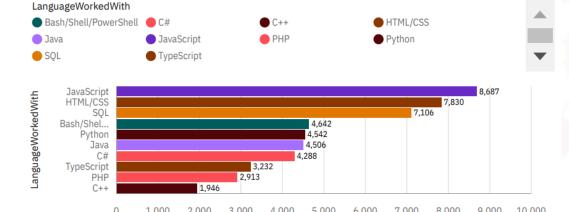
Future techniques

PROGRAMMING LANGUAGE TRENDS

Current Year

Current Technology Usage

Top 10 Language Worked With

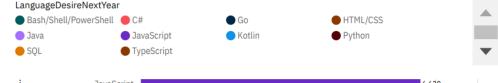


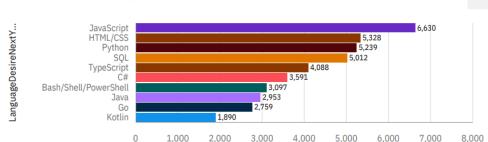
Respondent (Count)

Next Year

Technology Trend

Top 10 LanguageDesireNextYear





Respondent (Count)



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- JavaScript is the most highest number of people working with, following by HTML/CSS for both
- The third is replaced by python
- Total number of people who are working with top 10 languages decreases in the next year

Implications

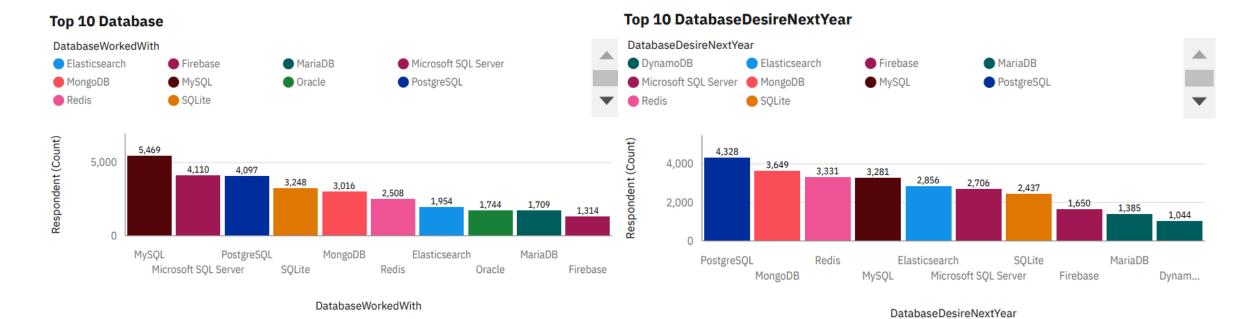
- JavaScript and HTML/CSS keep the trend
- People are more interested in python
- People are more interested for other languages



DATABASE TRENDS

Current Year

Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

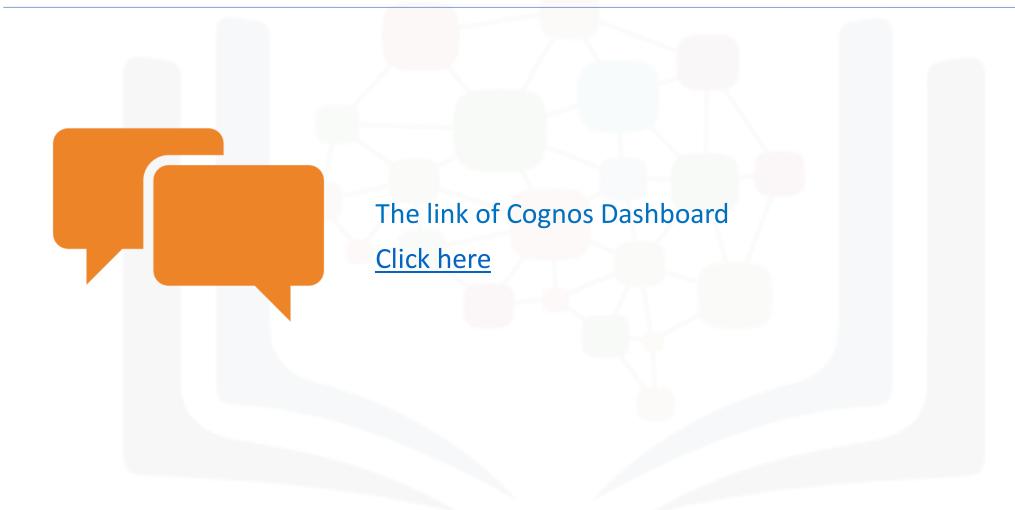
Findings

- PostgreSQL, MongoDB, Redis, ElasticSearch and Firebase will get higher ranking
- Oracle will be out, and replaced by DynamoDB

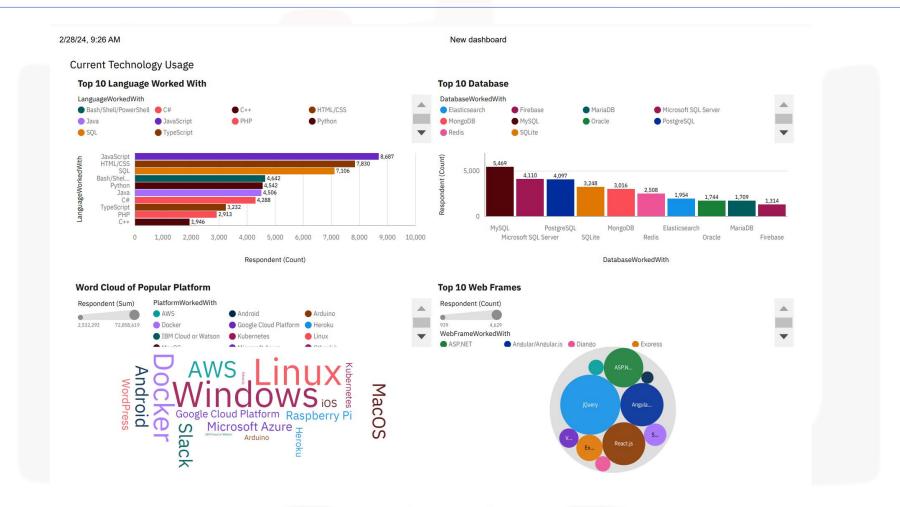
Implications

- People are more interested in PostgreSQL, MongoDB, Redis, ElasticSearh and Firebase
- People change the attention from Oracle to DynamoDB

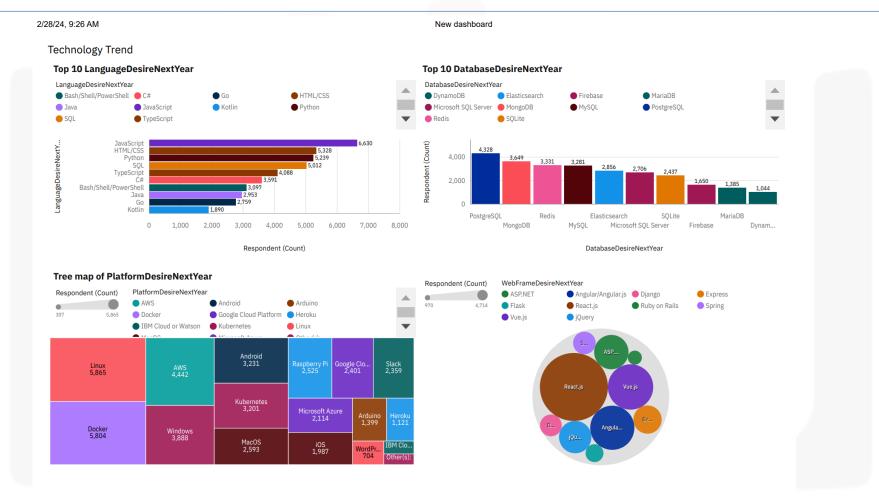
DASHBOARD



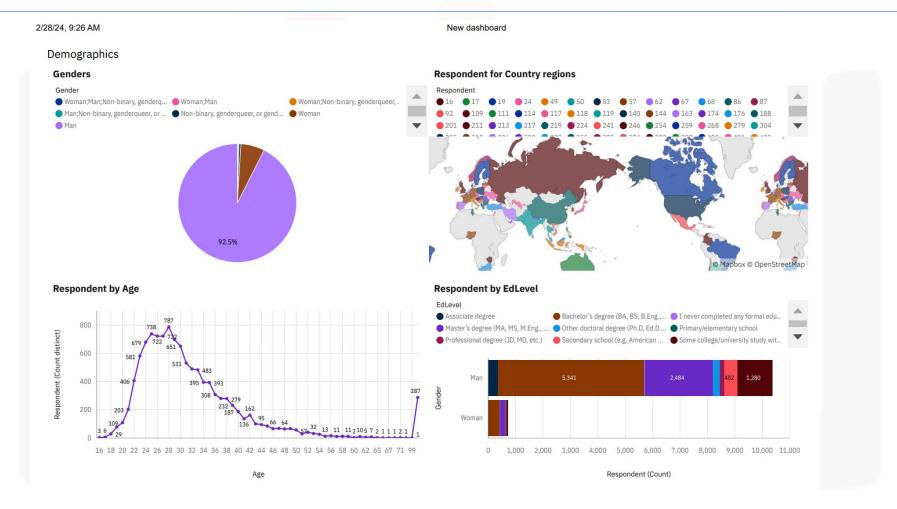
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



 Relations between genders, education levels, locations, ages and the number of Respondents

 Popular programming tools and techniques

OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript is the most highest number of people working with, following by HTML/CSS for both
- PostgreSQL, MongoDB, Redis, ElasticSearch and Firebase will get higher ranking
- The most of respondents come from EU and NA

Implications

- JavaScript and HTML/CSS keep the trend
- People are more interested in PostgreSQL, MongoDB, Redis, ElasticSearh and Firebase
- People in EU and NA are more interested in IT

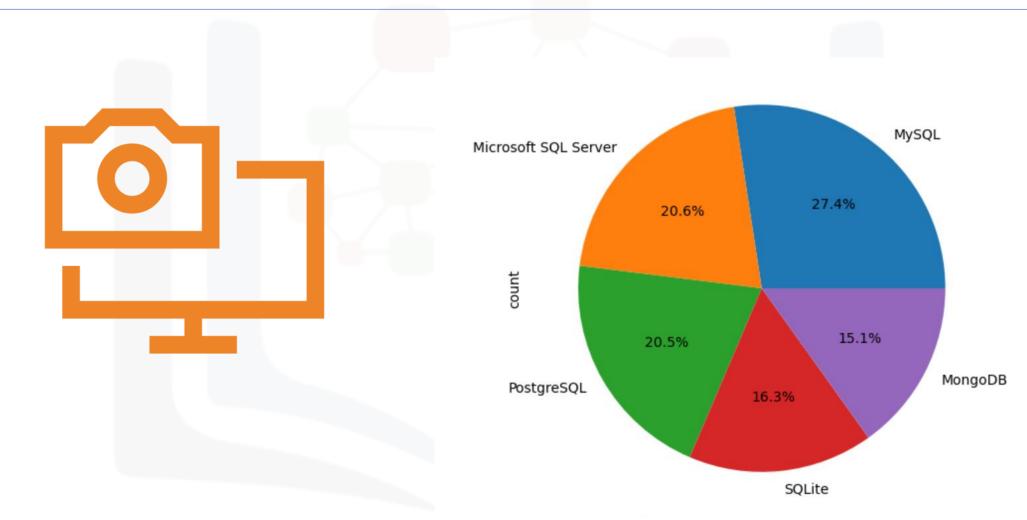


CONCLUSION



- JavaScript and HTML/CSS keep the trend
- People are more interested in PostgreSQL, MongoDB, Redis, ElasticSearh and Firebase
- People in EU and NA are more interested in

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

