

TRENDS ON DEVELOPERS PREFERENCES

KONSTANTINOS FRAGKAKIS 24/07/2024

OUTLINE



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

EXECUTIVE SUMMARY



- DATA ANALYSIS
- METHODOLOGY
 - DATA GATHERING
 - DATA CLEANING
 - DATA ANALYSIS
 - DATA VISUALIZATIONS
- PRESENTATION OF RESULTS WITH GRAPHS
- FINDINGS AND DISCUSSION
- CONCLUSION

INTRODUCTION



- A SURVEY FOR THE INTEREST OF DEVELOPERS THIS YEAR AND THE NEXT OVER DATABASES, PROGRAMMING LANGUAGES AND PLATFORMS THAT THEY WORK WITH.
- CHARACTERISTICS OF DEVELOPERS.

METHODOLOGY



COLLECTION OF DATA

- WEB SCRAPING OR SURVEY
- API'S

DATA WRANGLING

- REMOVE DUPLICATES, NULL VALUES
- IDENTIFYING THE DATA WE NEED
- HANDLING OUTLIERS

DATA ANALYSIS

- DATA DISTRUBITION
- CORRELATION

DATA VISUALIZATION

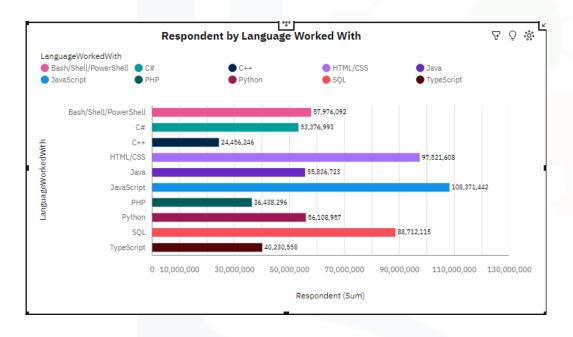
- CREATING GRAPHS
- COMPARING DATA

CREATING DASHBOARDS

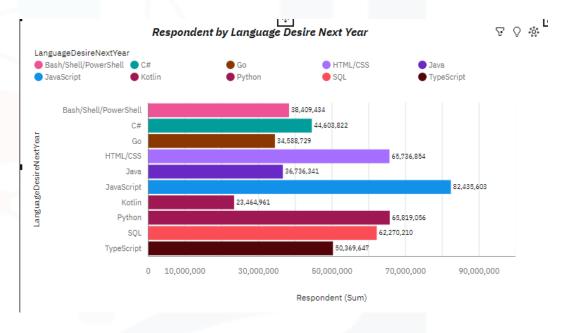
IBM COGNOS ANALYTICS

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- PROGRAMMERS PREFER TO STAY IN JAVASCRIPT.
- LOSS OF INTEREST IN C++ AND PHP.
- INTEREST IN KOTLIN AND GO.

Implications

MIGRATION OF PROGRAMMERS FROM C++ AND PHP TO GO, KOTLIN AND PYTHON.

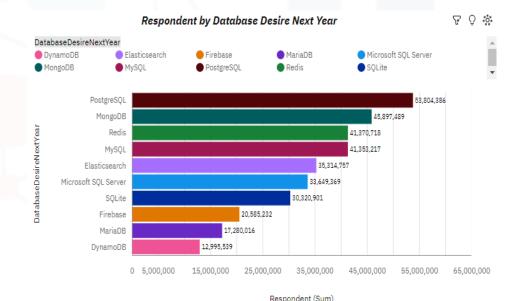
DATABASE TRENDS

Current Year

₽ 0 🔅 Respondent by DatabaseWorkedWith DatabaseWorkedWith Elasticsearch Firebase MariaDB MySQL Oracle PostgreSQL 68,301,583 MySQL 51,129,157 PostgreSQL Microsoft SQL Server 51,056,094 37,462,758 MongoDB Redis 24,154,705 Elasticsearch MariaDB 21,247,003 Oracle 16,227,799 Firebase 10,000,000 20,000,000 30,000,000 40,000,000 50,000,000 60,000,000 70,000,000 80,000,000

Respondent (Sum)

Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- SOME DECREASE IN INTEREST OF MYSQL.
- POSTGRE AND MONGOBD ESTABLISHMENT IN MOST **USED DATABASES.**
- NOT ENOUGH INTEREST IN ORACLE.

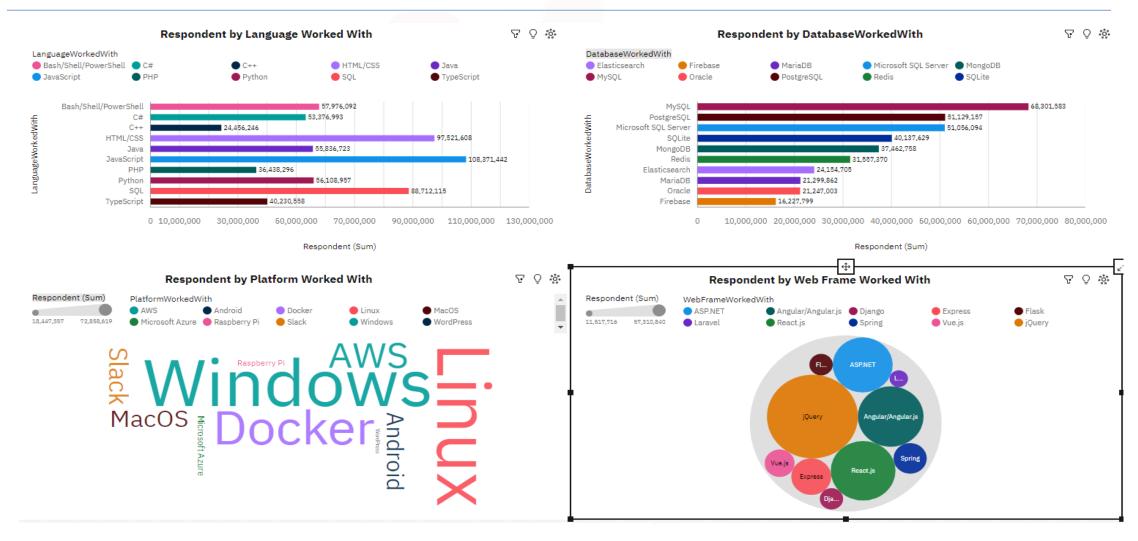
Implications

- MONGODB WINNING GROUND OVER SOME SQL DATABASES.
- NOT ENOUGH DIVERSITY OF DATABASES RATHER THAN SQL DATABASES.

DASHBOARD



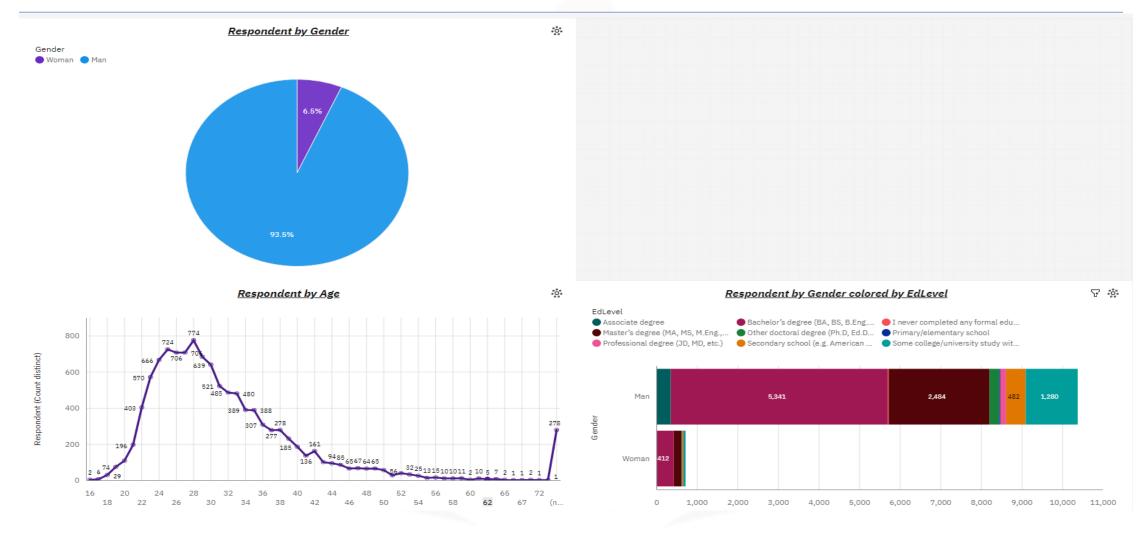
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



OVERALL FINDINGS & IMPLICATIONS

Findings

- THE MAJORITY OF PROGRAMMERS ARE MALE AND IN THEIR TWENTIES.
- SOME PROGRAMMING LANGUAGES LIKE PYTHON AND TYPESCRIPT ARE GAINING INTEREST OF PROGRAMMERS OVER C++ AND JAVASCRIPT.
- DATABASES OF SQL ARE TAKING OVER THE MARKET.

Implications

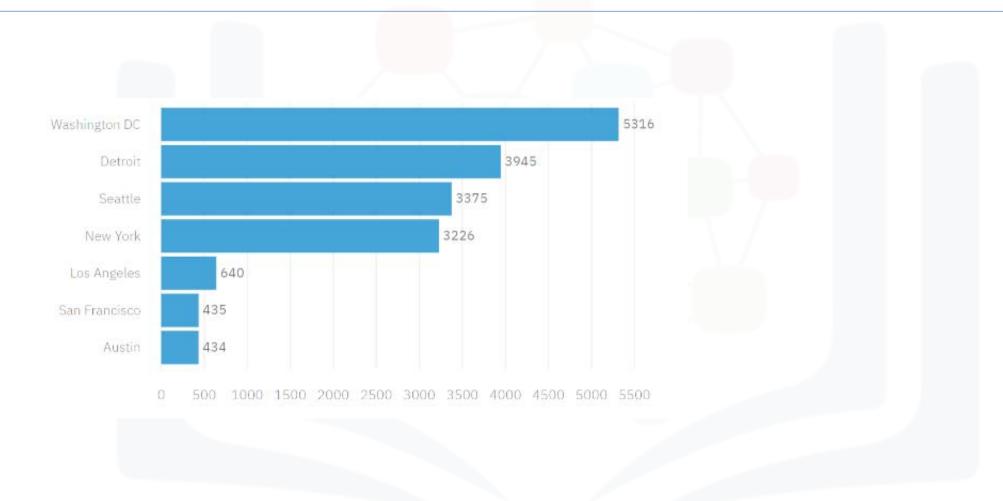
- A LOT OF PROGRAMMERS WITHOUT POSTGRAD STUDIES.
- NEW PROGRAMMING LANGUAGES ARE GAINING GROUND OVER SOME OLDER ONES.

CONCLUSION



- THE MOST PROGRAMMERS ARE USING SQL DATABASES(LIKE POSTGRE SQL OR MYSQL).
- PROGRAMMERS ARE IN MAJORITY YOUNG MALES WITHOUT POSTGRAD EDUCATION.
- THERE IS A VARIETY OF PROGRAMMING LANGUAGES THAT ARE USED WHICH LEAVES A LOT OF PLACE FOR LEARNING AND EVOLUTION.
- THERE IS A LARGE GAP IN PROGRAMMERS AS OF THEIR AGE, GENDER AND COUNTRY AND JOB HAS TO BE DONE TO BRIDGE THIS GAP.

JOB POSTINGS



POPULAR LANGUAGES

