CAPSTONE PROJECT

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OUTLINE

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

EXECUTIVE SUMMARY

- Understanding what Programming Languages are
- Introduction to programing Languages
  - Programming Language Trends
  - Programming Language Trends, Findings and Implications
- Understanding database
- Database Trends
- Database Trends and Implications

INTRODUCTION

- Programming Languages serve as tools in this modern age
- Programming Languages help machines function
- Knowledge of programming Languages gives one the needed sort after skills
- Databases helps store data
  - Databases helps companies serve customers better
  - Databases reduces data loss

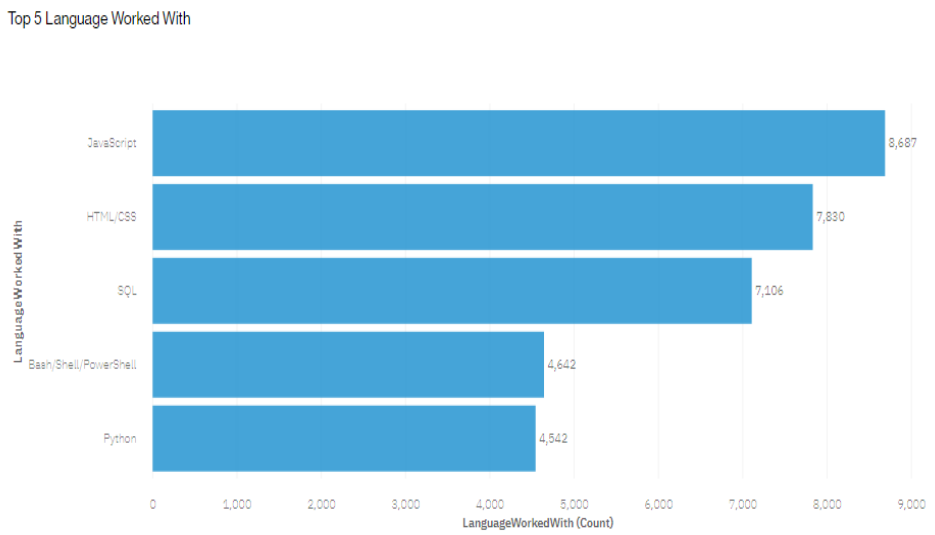
METHODOLOGY

- Regressive Analysis
- Hypothesis Analysis
- Content Analysis
- Discourse Analysis
  - Collect the data
  - Analysis the content

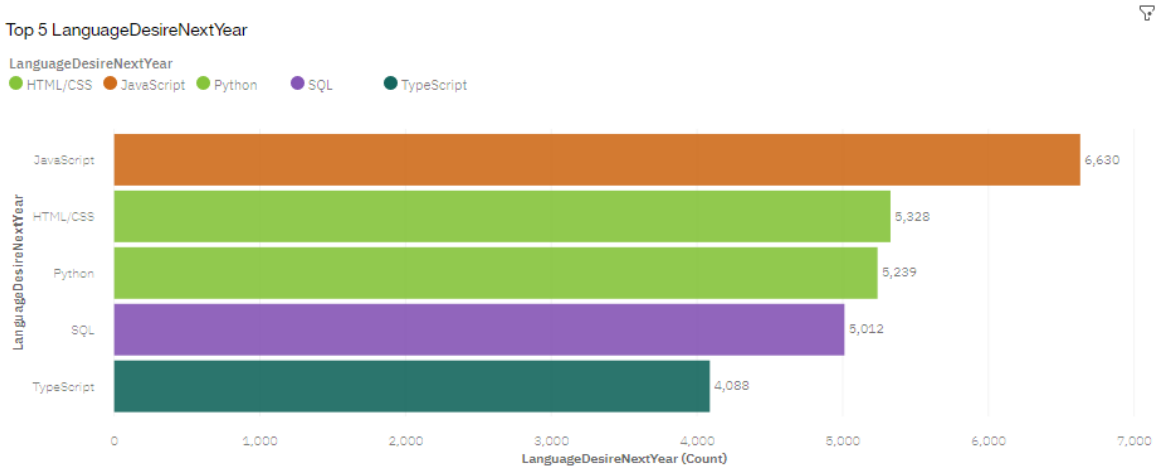
RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

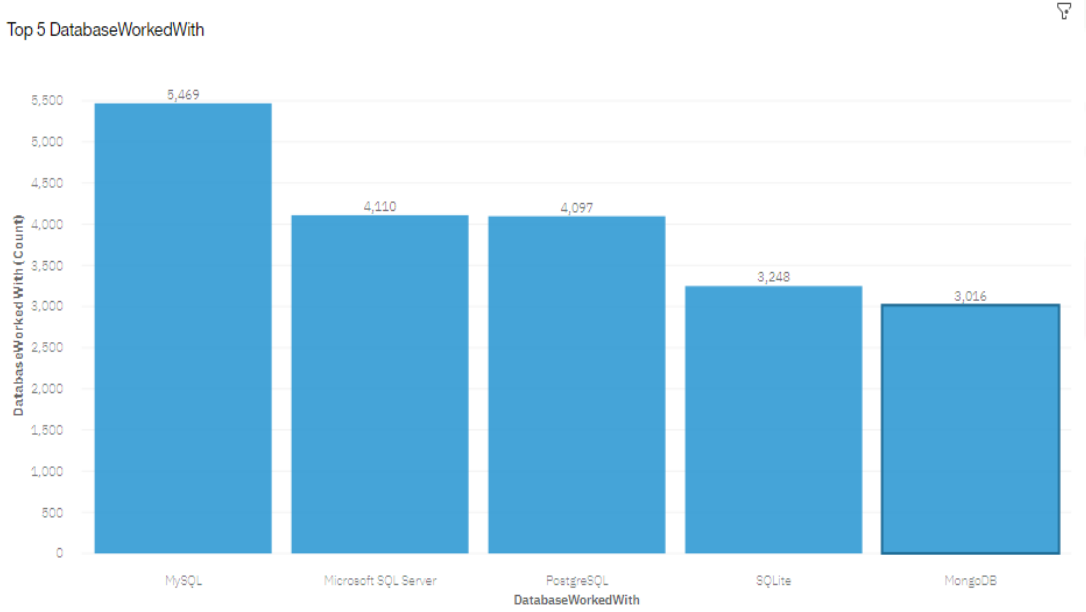
- Java – the most popular primary programming language
- JavaScript – the most used overall programming language
- Python – the most studied programming language

Implications

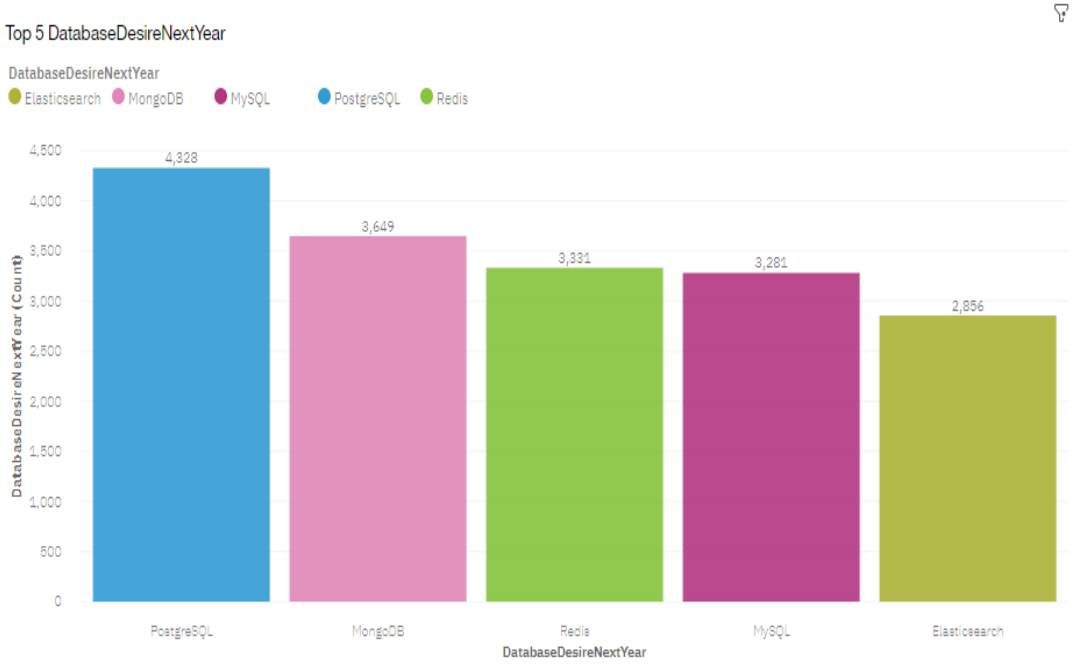
- Programming is the next big thing
- Programming languages makes work faster
- Programming languages are becoming a vital tool needed in the society

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- SQL back on top
- ML – Driven Databases
- Microservice Integration

Implications

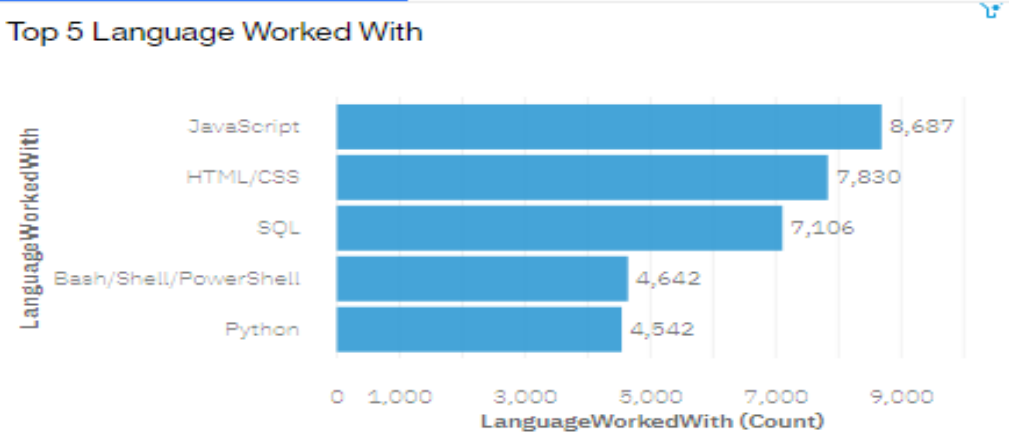
- SQL is being used as the default querying languages
- ML models is becoming standard practice
- Microservices approach is being used for creating apps

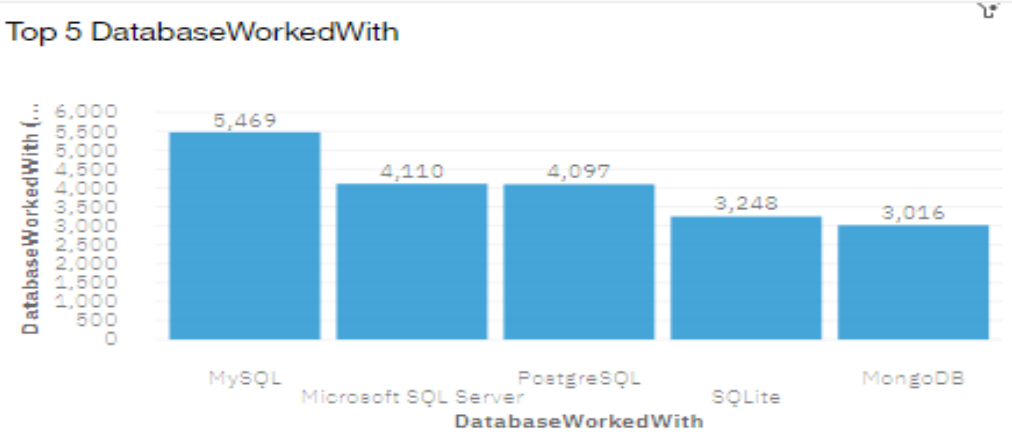
DASHBOARD

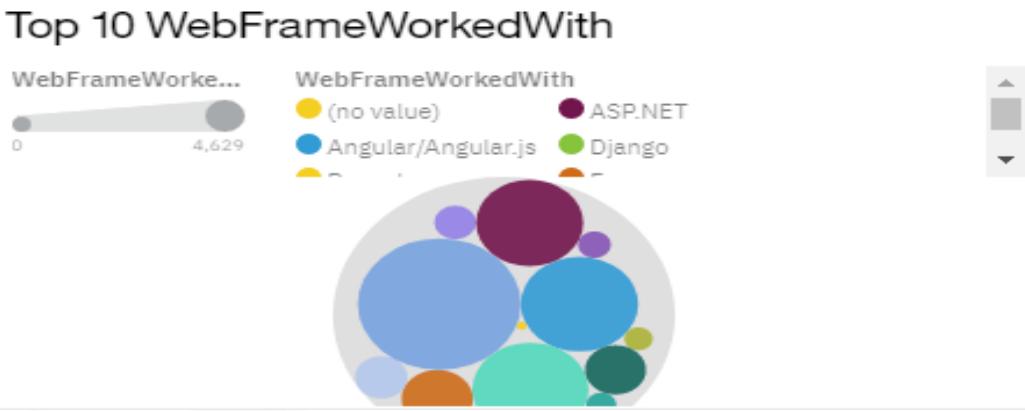
https://eu-gb.dataplatform.cloud.ibm.com/dashboards/41730dfa-2786-42c7-972b-412d9450dbe9/view/1934f60566f13fef4ed5d0e4079d2c52293f215ae3bb8a02d2837b495a652397a96f1393c82a4308d9135061f2e5135cc9

DASHBOARD TAB 1

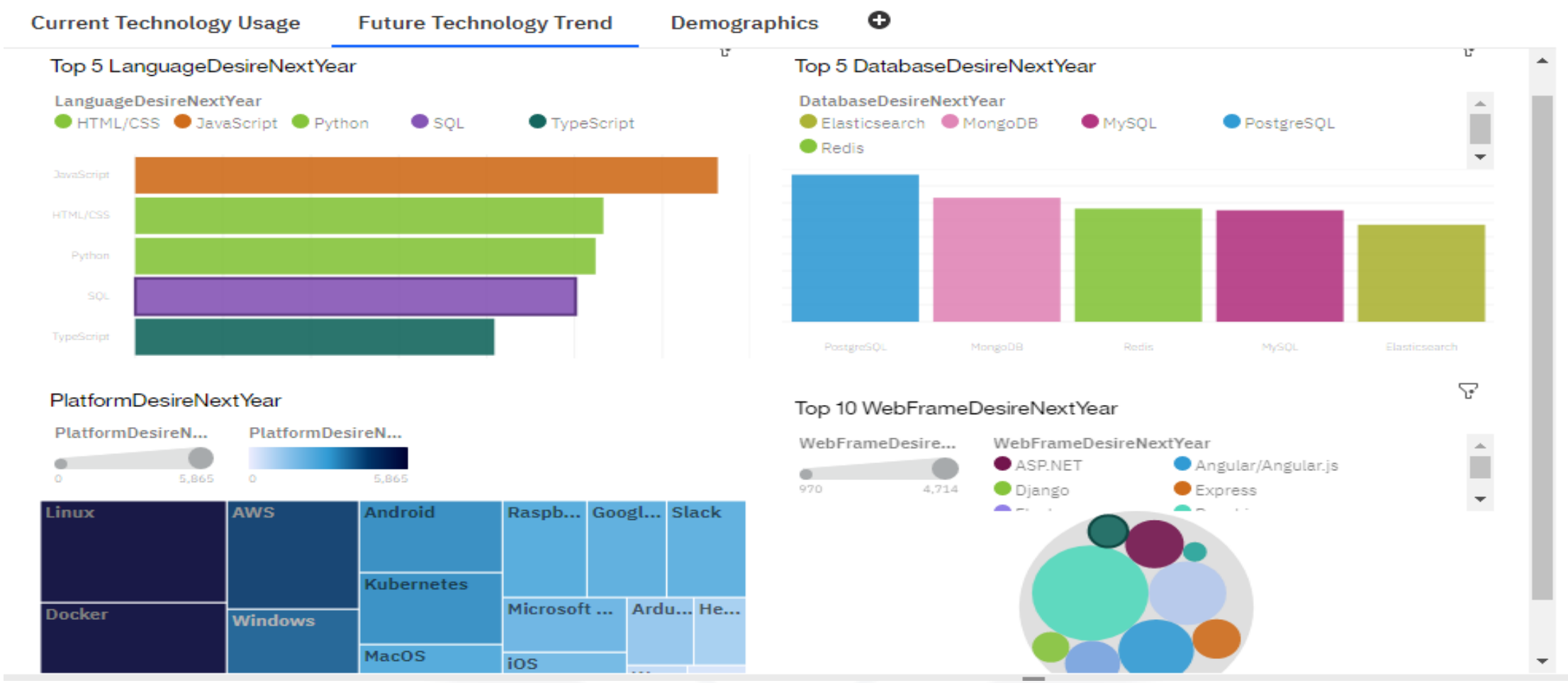
Current Technology Usage | Future Technology Trend | Demographics







DASHBOARD TAB 2



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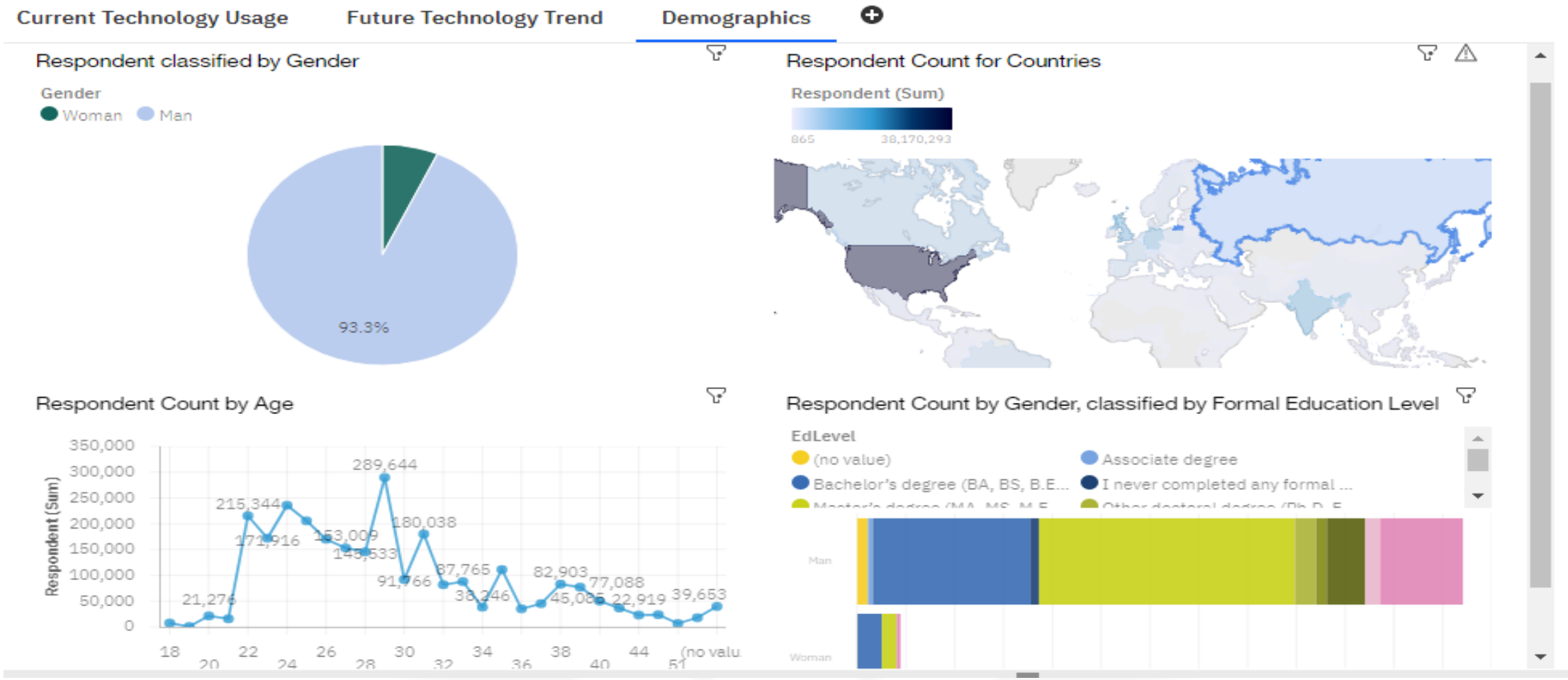


DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

Findings

- Programming languages are increasingly used
- Java is the most popular language
- SQL is the leading database

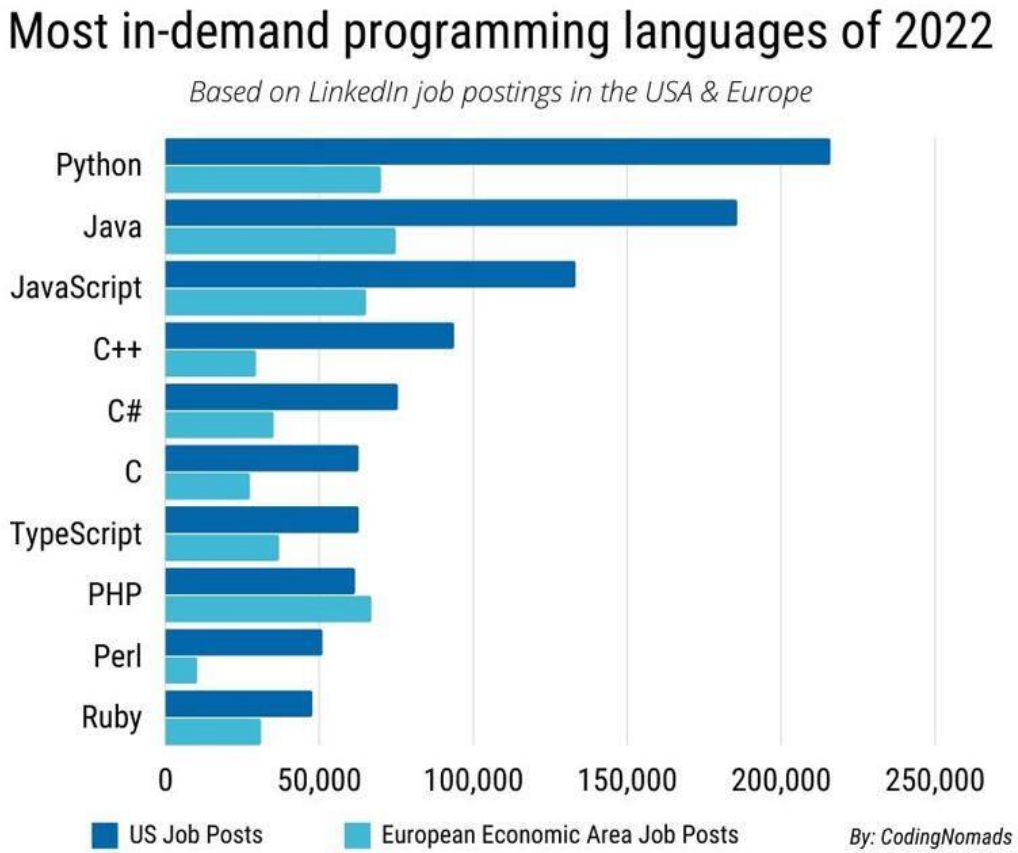
Implications

- Increasing in job opportunities
- Apps will be created with it
- SQL will be used by most companies

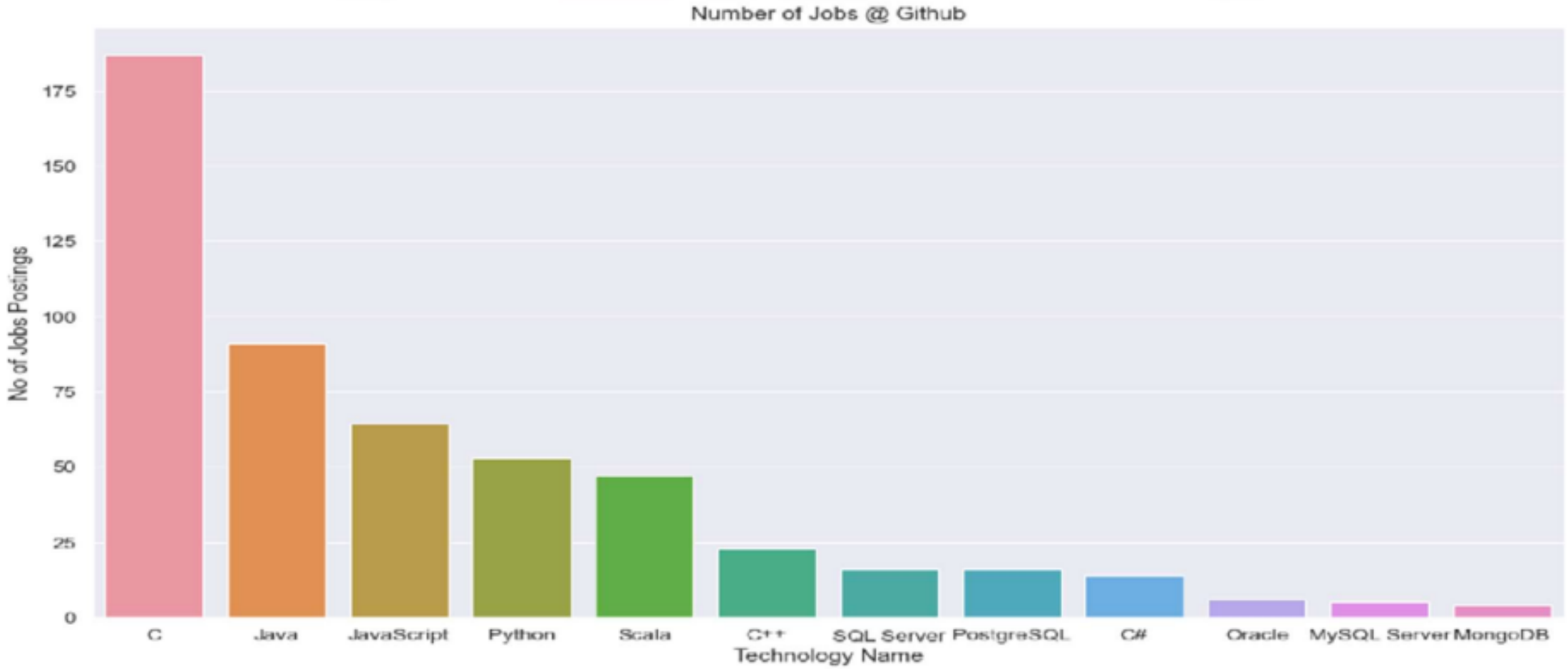
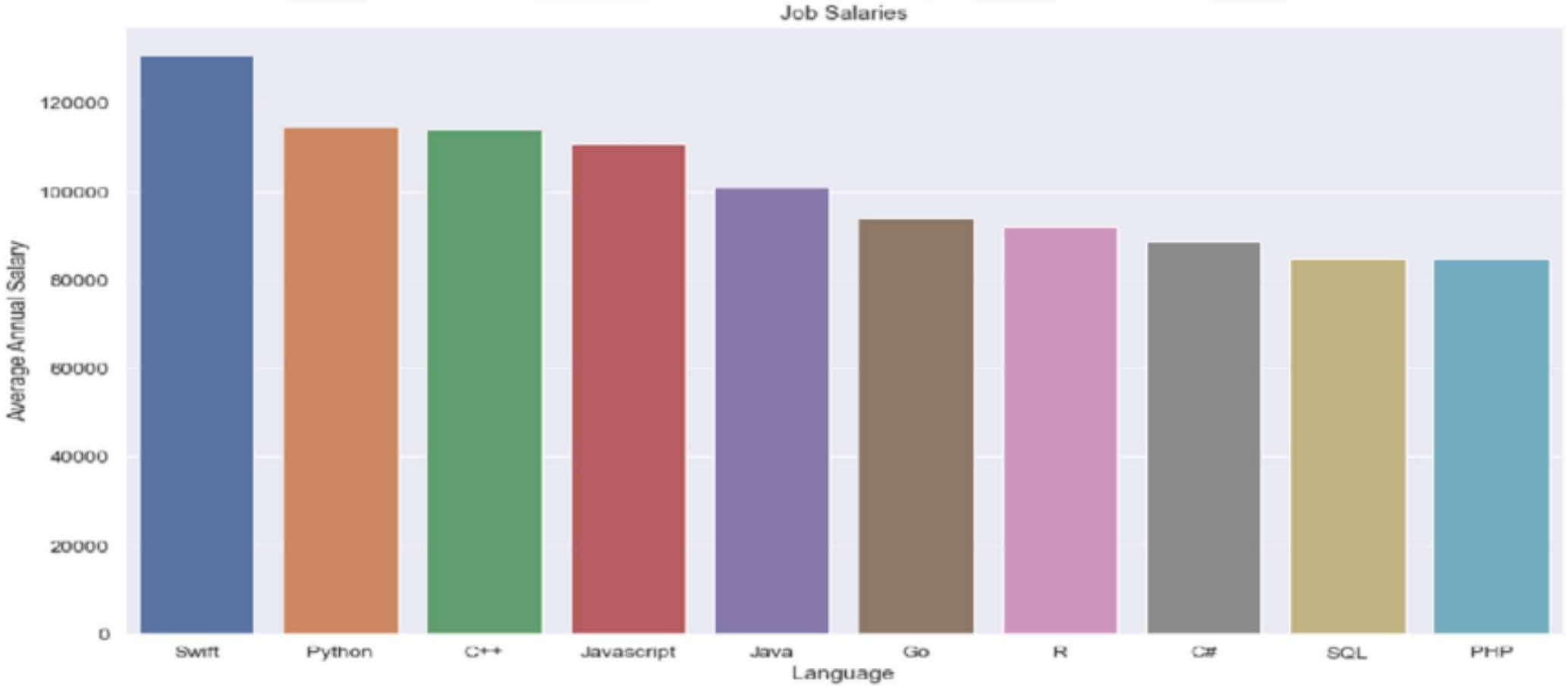
CONCLUSION

- People should try and learn a programing language
- Turn it into a lucrative skill
- Databases should be used to store data
- There are more emerging databases

APPENDIX


Most in-demand programming languages of 2022
Based on LinkedIn job postings in the USA & Europe
Python
Java
JavaScript
C++
C#
C
TypeScript
PHP
Perl
Ruby
0
50,000
100,000
150,000
200,000
250,000
US Job Posts
European Economic Area Job Posts
By: CodingNomads

GITHUB JOB POSTINGS



POPULAR LANGUAGES