



Capstone Story template

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OUTLINE



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

EXECUTIVE SUMMARY



- Current Technology Usage
 - Top 10 Languages
 - Top 10 Databases
 - Platforms
 - Top 10 Web Frames
- Future Technology Trends
 - Top 10 Languages desired for the next year
 - Top 10 Databases desired for the next year
 - Desired Platforms for the next year
 - Top 10 Web Frames desired for the next year
- Demographics
 - Respondents Classified by gender
 - Respondents count for Countries
 - Respondents count by Age
 - Respondents count by gender and classified by education level

INTRODUCTION



- Top Programming Languages in demand.
- Top 10 Database skills in demand.
- The Popular IDEs.
- Correlation between Numerical data.
- Scrapping Internet Websites and accessing APIs to collect data.

METHODOLOGY



- Collecting data usages APIs
 - The GitHub jobs API allow us to search and view jobs with JSON over HTTP.
 - GitHub jobs API allows anyone to query for the jobs based on upon:
 - Technology like Python, Mysql.
 - City like New York, Bangalore
- Collecting data using Web Scrapping.

RESULTS

you follow the link.

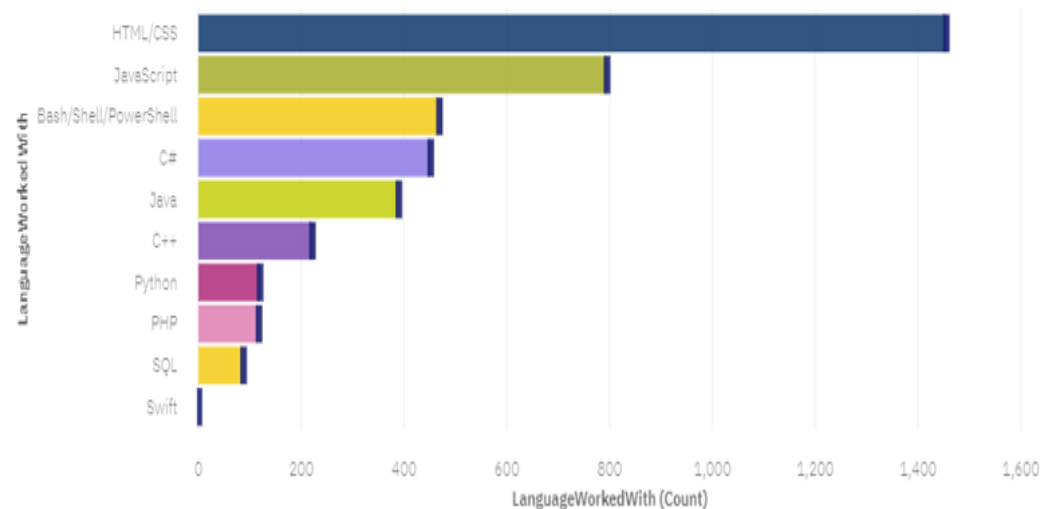
https://datapatform.cloud.ibm.com/dashboards/f5664c82-0c2e-4118-87bc-5162ecf4a55b?project_id=bb71ace7-1545-4ee2-b5fc-02b374640baa&userfs=false&context=cpdaas&mode=consumption

PROGRAMMING LANGUAGE TRENDS

Current Year

Top 10 Languages

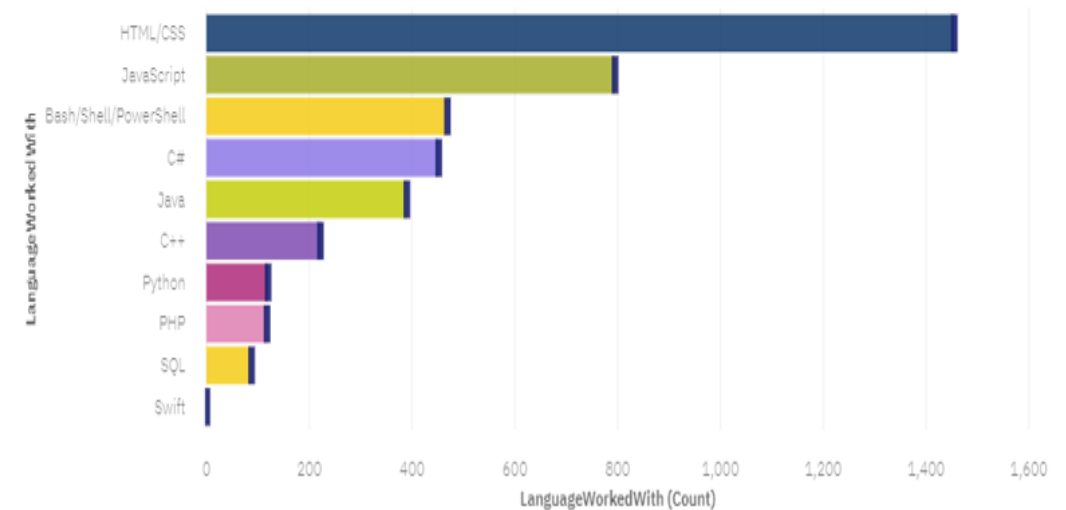
LanguageWorkedWith



Next Year

Top 10 Languages

LanguageWorkedWith



PROGRAMMING LANGUAGE TRENDS – FINDINGS & IMPLICATIONS

Findings

- Java Script is most popular language to use in current and also in future.
- HTML/CSS is the Second most popular language to use in current and also in future.
- Python has the rising trend

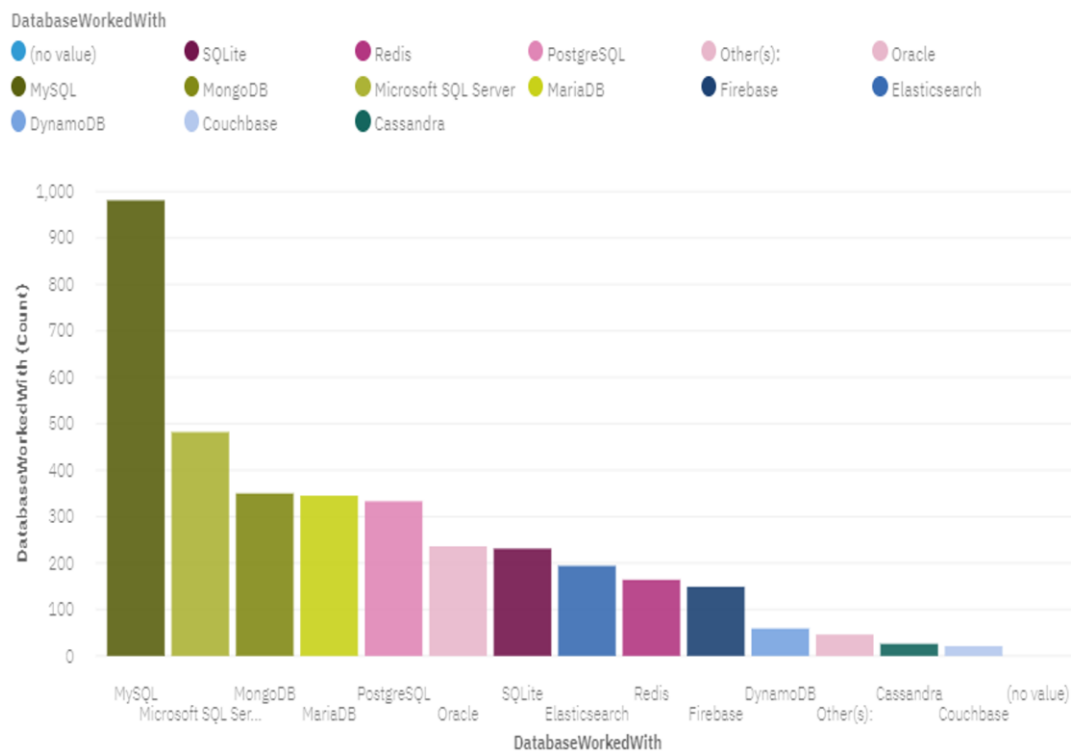
Implications

- Java Script and HTML/CSS both have demand in current and future trend.
- Python is the new thread for near future and need to be focused on that.
- Java, c#, C++ have lost their momentum. People are looking for other languages apart from them.

DATABASE TRENDS

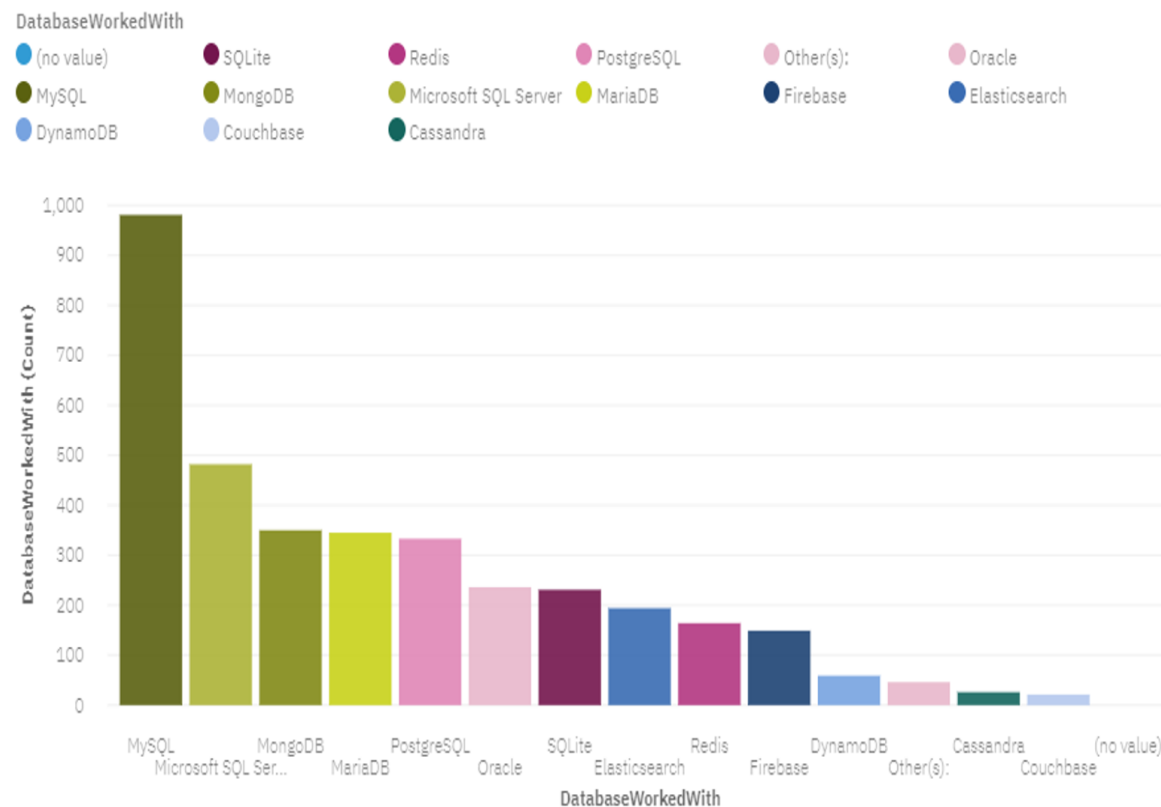
Current Year

Top 10 DataBase



Next Year

Top 10 DataBase



DATABASE TRENDS – FINDINGS & IMPLICATIONS

Findings

- RDBMS has the dominant trend in current usage.
- NON RDBMS have the dominant trend in future.

Implications

- People are highly interested to learn non-relational database
- It's very clear that big data becomes very popular in future.

DASHBOARD



- https://dataplatform.cloud.ibm.com/dashboards/f5664c82-0c2e-4118-87bc-5162ecf4a55b?project_id=bb71ace7-1545-4ee2-b5fc-02b374640baa&userfs=false&context=cpdaas&mode=consumption

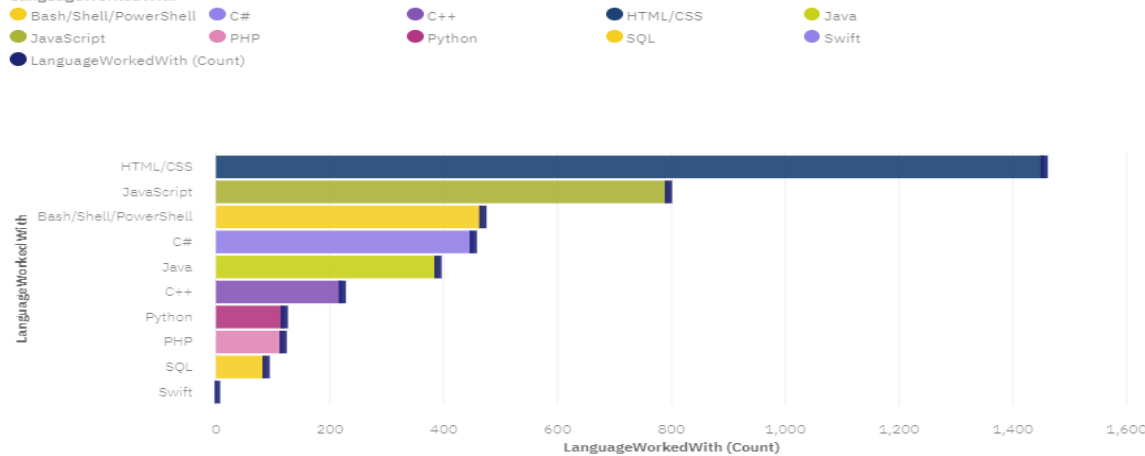
DASHBOARD TAB 1

Filters

Current Technology Usage

Top 10 Languages

LanguageWorkedWith
Bash/Shell/PowerShell C#
JavaScript PHP
LanguageWorkedWith (Count)



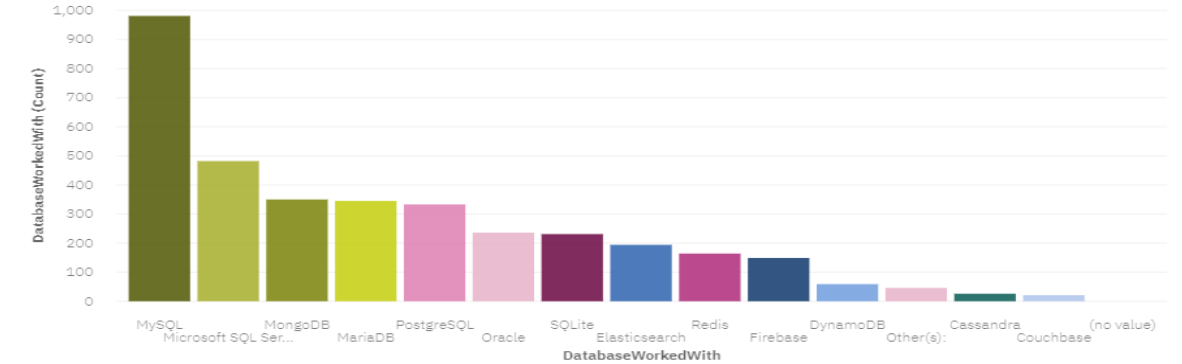
Platform workedwith

PlatformWorked...
PlatformWorkedWith
AWS Android
Docker Heroku
Kubernetes Linux
Other(s): MacOS
WordPress Raspberry Pi
iOS



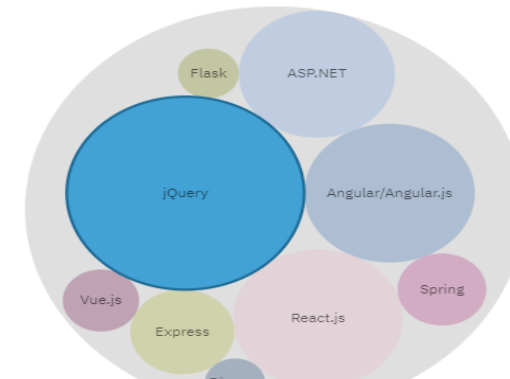
Top 10 DataBase

DatabaseWorkedWith
(no value) SQLite Redis PostgreSQL
MySQL MongoDB Microsoft SQL Server MariaDB
DynamoDB Couchbase Cassandra Other(s): Oracle Elasticsearch



Top 10 Work Frame worked with

WebFrameWorked...
WebFrameWorkedWith
ASP.NET Angular/Angular.js Django Express Flask
React.js Spring Vue.js jQuery

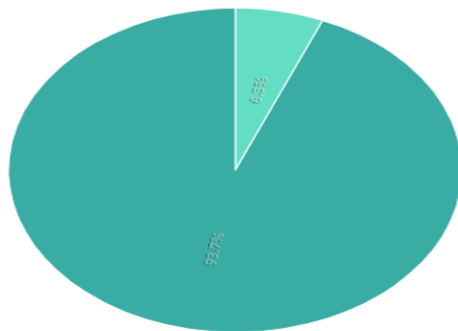


DASHBOARD TAB 2

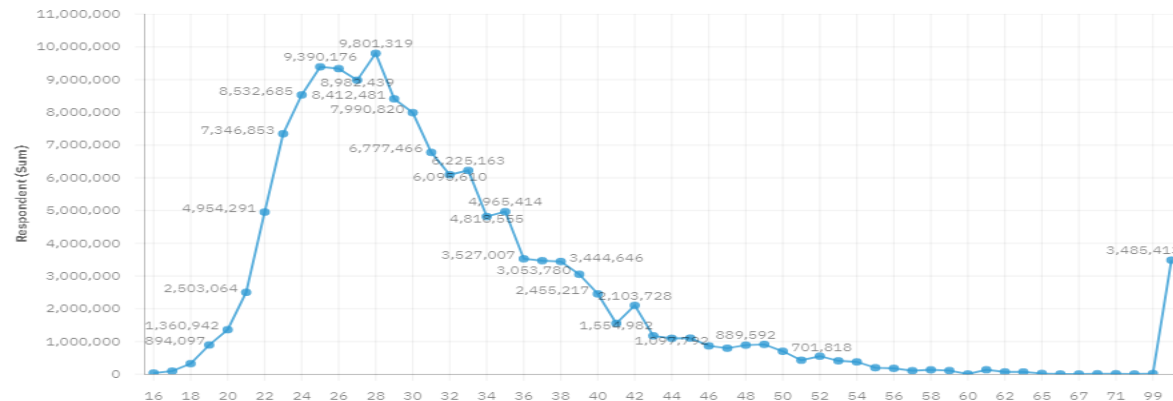
Current Technology Usage Future Technology Trend Demographics

Respondent classified by Gender

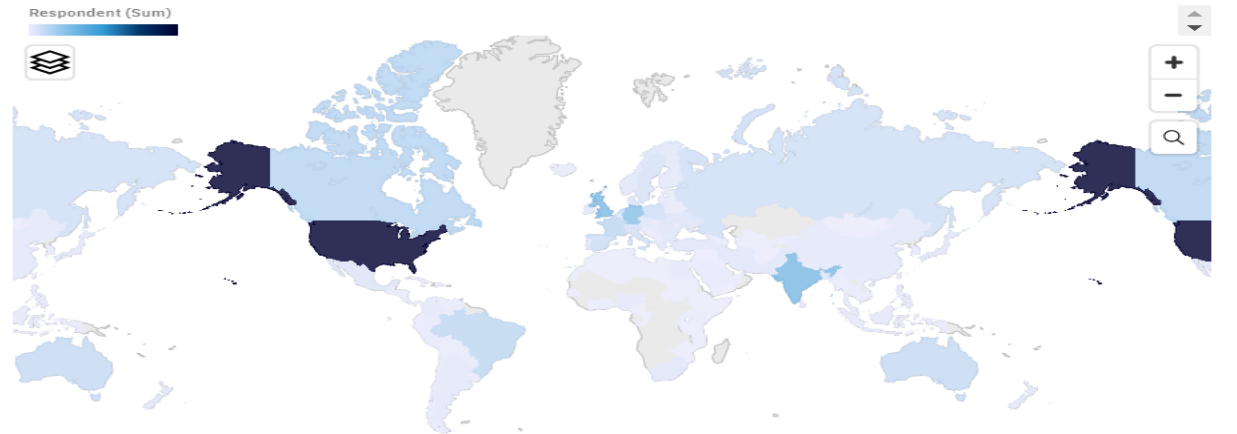
Gender
Woman Man



Age wise Respondent

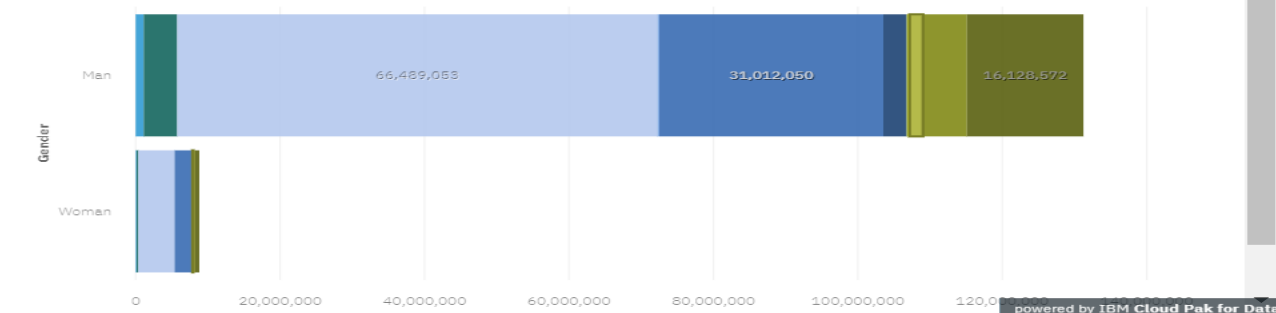


Country wise Respondent

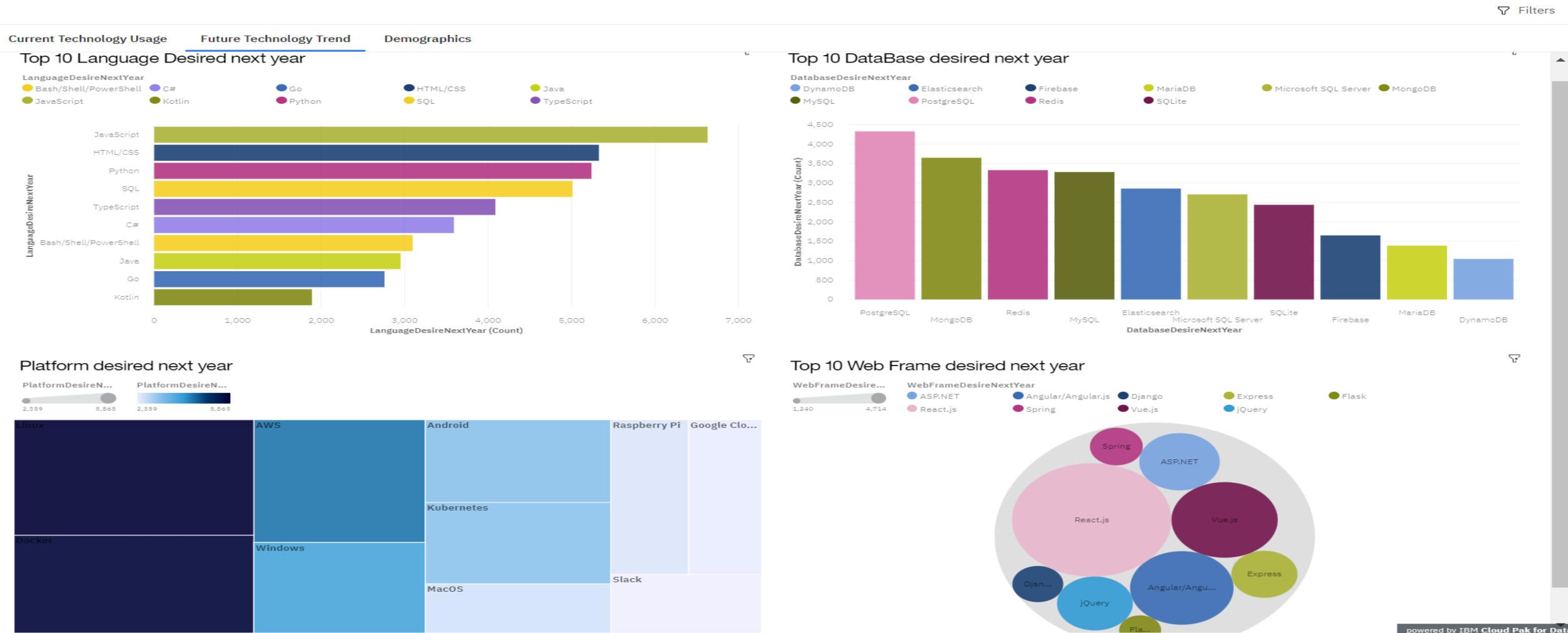


Gender & Education wise Respondent

EdLevel
(no value) Associate degree Bachelor's degree (BA, BS, B.E... I never completed any formal ...
Master's degree (MA, MS, M.E... Other doctoral degree (Ph.D, E... Primary/elementary school Professional degree (JD, MD, e...
Secondary school (e.g. Americ... Some college/university study ...



DASHBOARD TAB 3



DISCUSSION



- It is clear from previous study that the Upcoming future is for big data so the knowledge on big data along with advanced programing languages will make the differences.

OVERALL FINDINGS & IMPLICATIONS

Findings

- The Up-Coming programing trends is for advanced programming language.
- The Up-coming trends for databases is non-relational database

Implications

- People are looking for advanced programing languages along with easy learning.
- People are looking for big data cause data is every where

CONCLUSION

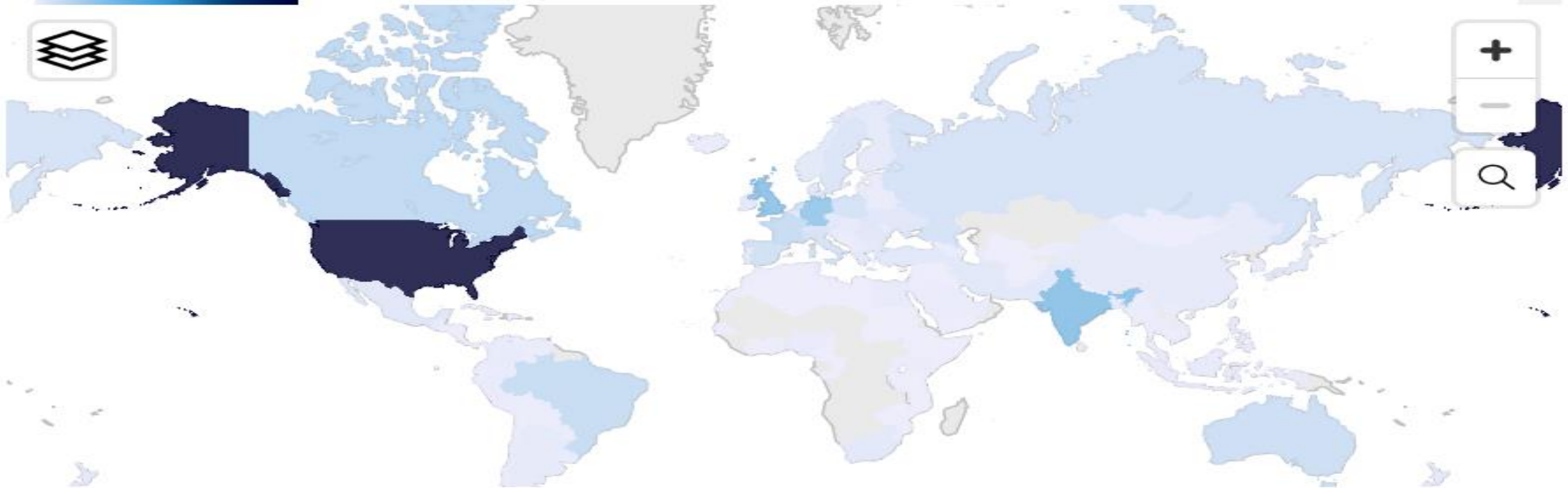


- The Top Programming languages in demand.
- The Top database skills in demand.
- The Popular IDEs.
- Scraping internet web sites and accessing APIs to collect data.

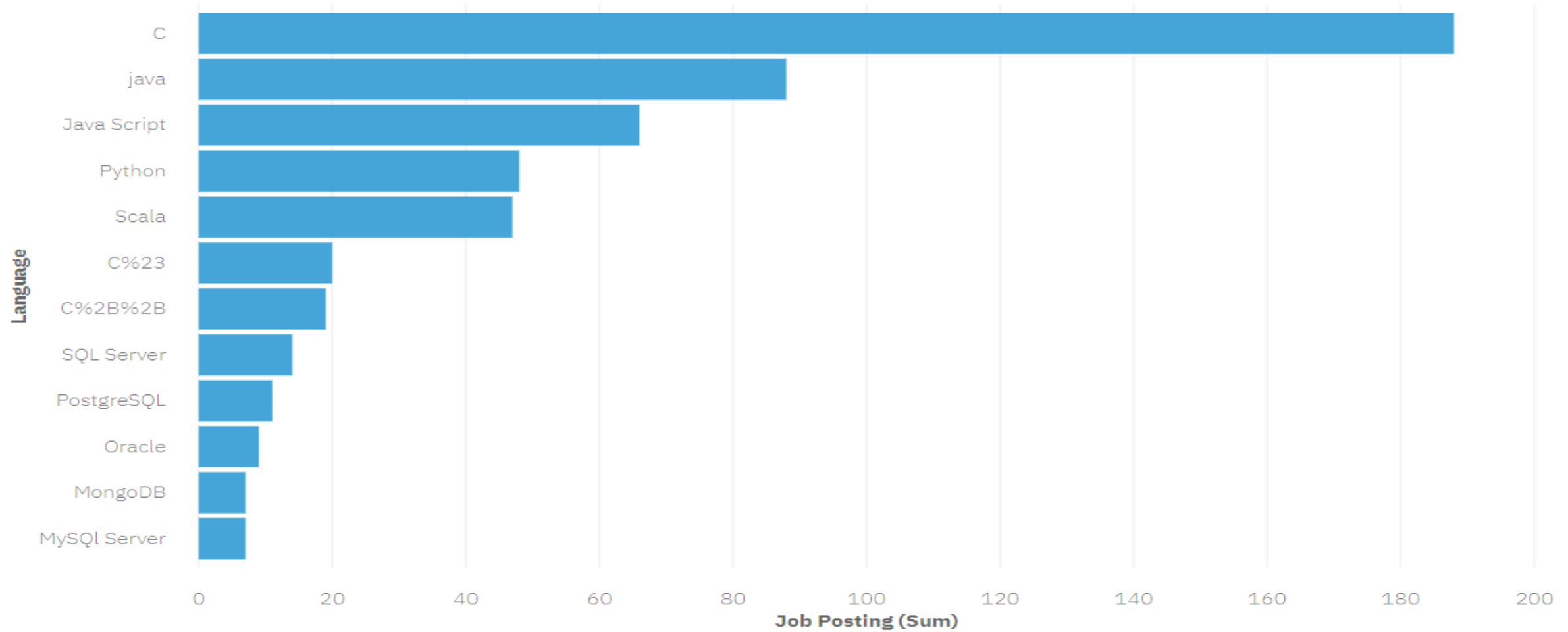
APPENDIX

Country wise Respondent

Respondent (Sum)



JOB POSTINGS



POPULAR LANGUAGES

