OUTLINE



- Executive Summary
- Introduction
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- Conclusion
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EXECUTIVE SUMMARY



- Current Technology Usage
 - Top 10 Languages
 - Top 10 Databases
 - Platforms
 - Top 10 Web Frames
- Future Technology Trends
 - Top 10 Languages desired for next year
 - Top 10 Databases desired for next year
 - Desired Platforms for the next year
 - Top 10 Web Frames desired for next year
- Demographic
 - Respondents classified by gender
 - Respondent count for countries
 - Respondent count by age
 - Respondent count by gender and classified education level

INTRODUCTION



- Top programing languages in demand
- Top database skills in demand
- Popular IDEs
- Correlation between numerical data
- Scraping the internet websites and accessing APIs to collect data

METHODOLOGY

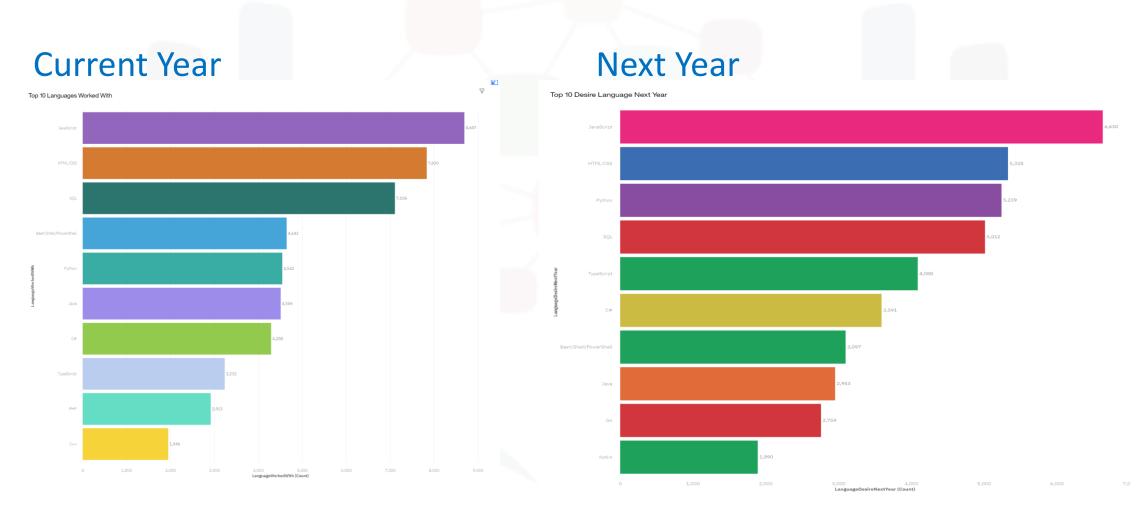


- Collecting data using APIs
 - GitHub Jobs API allows us to search and view jobs with JSON
 - Allows us to query for the jobs based upon:
 - Technology: Python, SQL
 - City: New York, Los Angeles, Austin
- Collecting data using webscraping

RESULTS



PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

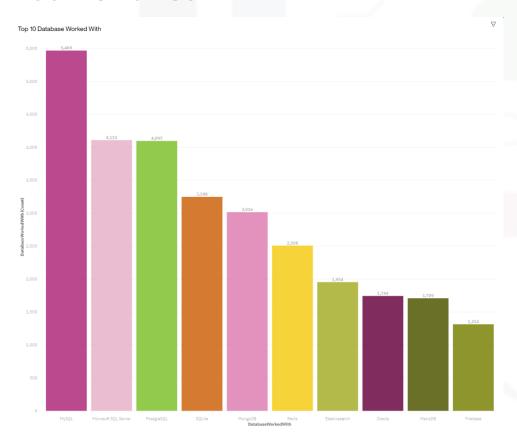
- JavaScript is the top trending language
- SQL and HTML/CSS are still great to use
- Python is becoming more popular

Implications

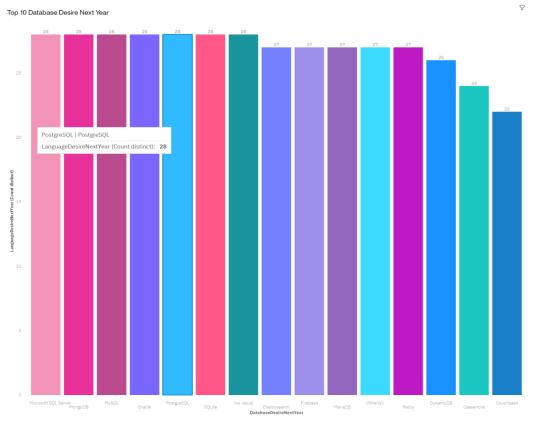
- Web developments are in high demand
- JavaScript is crucial to learn
- Python is becoming a trendy language to learn

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- SQL Servers have the dominate trend
- RDBMS are slowly dying

Implications

- People want to learn non relational databases
- Big data is going to continue to grow at a faster rate

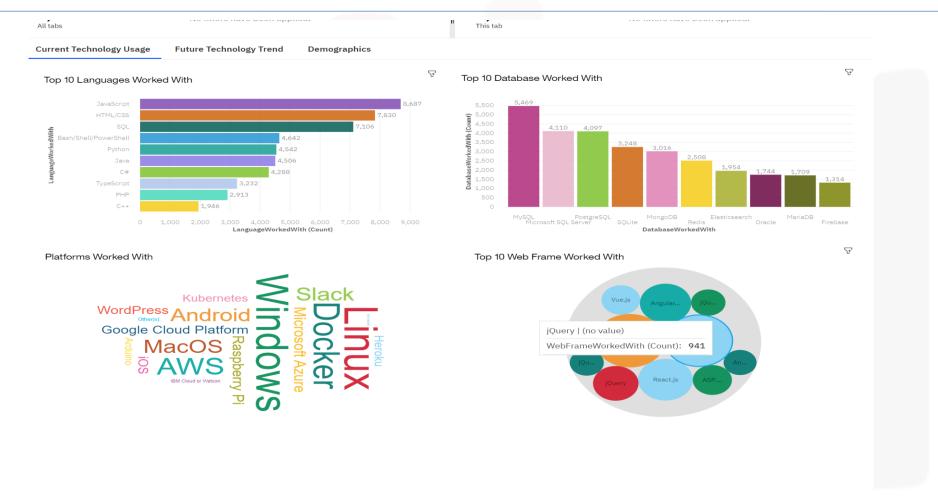
DASHBOARD



https://dataplatform.cloud.ibm.com/dashboards/263b4ce4-6c9b-467a-ac6d-

2dce6d18525b/view/553bf47c23b737ea42c2cce4079b2e53 78312359b1bbd10280867b490c697897a93b41c0c8284c5ed 3100237a2e446519f

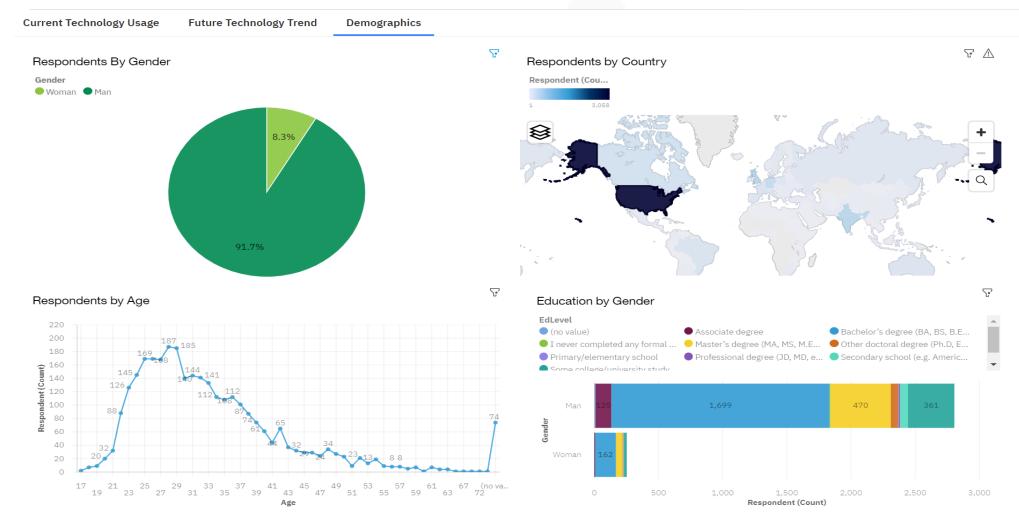
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



 It is clear from this study that the future is going towards big data. So the knowledge on big data and advanced programing languages will make a difference for these companies.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Programing is becoming more advanced and necessary for businesses
- Databases are becoming more non relational

Implications

- People are learning more advanced programing languages
- Big data is everywhere and will continue to grow

CONCLUSION



- Top Programing languages
- Top database skills
- Popular IDEs
- Web scraping and accessing APIs to collect data

APPENDIX



- Data is from m5 survey data demographics.csv
- m5 survey data technologies normalized. **CSV**