# IBM DATA ANALYTICS

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# OUTLINE

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

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# EXECUTIVE SUMMARY

- Python programming language is having an upward trend in demand

- Postgre and MySQL are the most popular and used database

- jQuery js and Vue js are will most like be the most used web frame

- Majority of the respondents are males, bachelor's degree holders, and are aged 22-36 years

# INTRODUCTION

- What are the most used programming languages
- What are the most used database
- What are the most used web frame
- What Gender is mostly into technology
  - What is the Educational Level of Techies
  - What age has the highest number of Techies

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# METHODOLOGY

- Obtained data via web scrapping

- Used python for data wrangling and exploratory data analysis

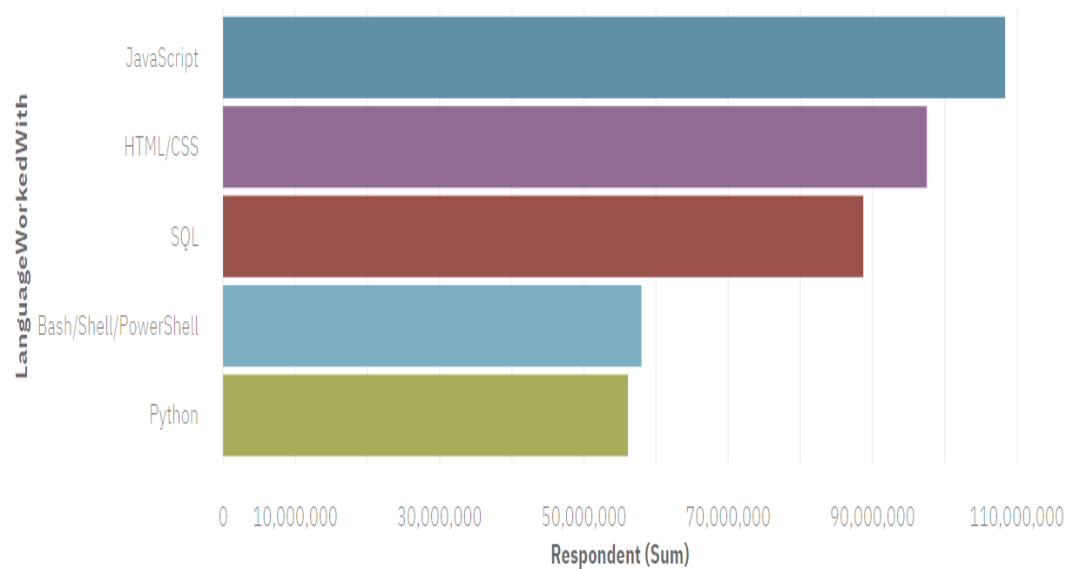- Used cognoz analytics to analyze and visualize the data
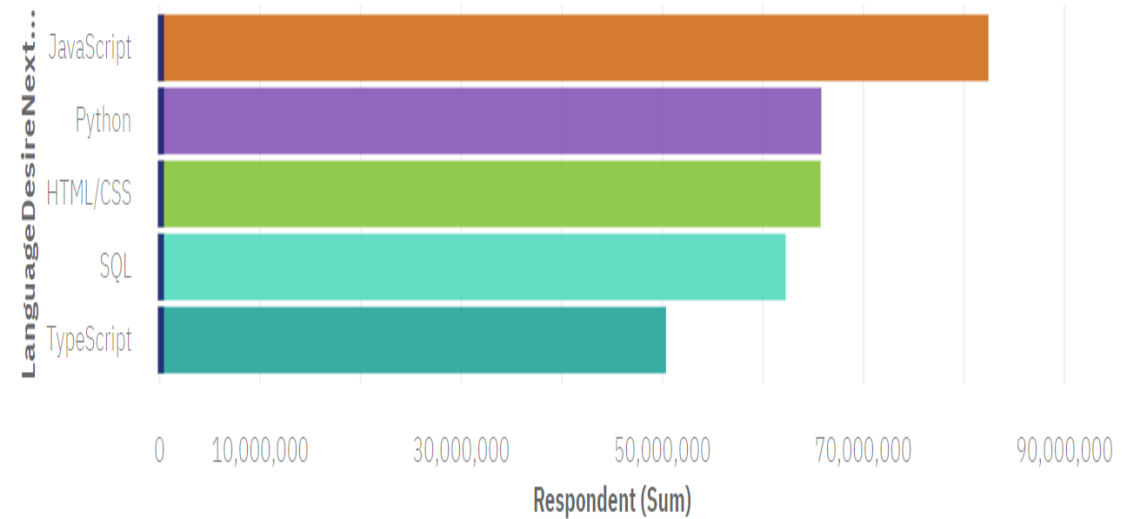
# RESULTS

# PROGRAMMING LANGUAGE TRENDS

## Current Year

### Top 5 Languages Worked with



## Next Year

### Top 5 Languages Desired Next Year



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# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

## Findings

- Javascript is the most used language by respondents currently and the most desired language next year

- HTML/CSS and SQL are the second and third most used language among respondents currently but is desired lesser by respondents

- Python is currently the 5th most used language by respondents now but the second most desired language by respondents next year.
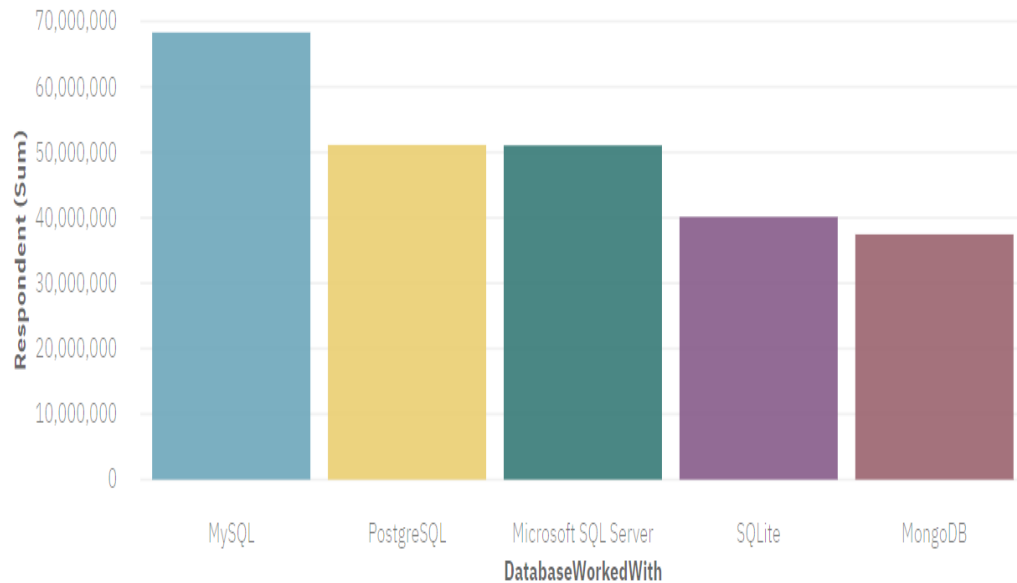
## Implications

- Javascript has a wide use amongst respondents but experiencing a decrease in demand which is reflected by the respondents' desires

- Python is increasing in demand which is reflected by the 17.3% increase in the respondents desire.

- Bash/Shell/Powershell is experiencing a decline in demand as reflected by the respondents' desire

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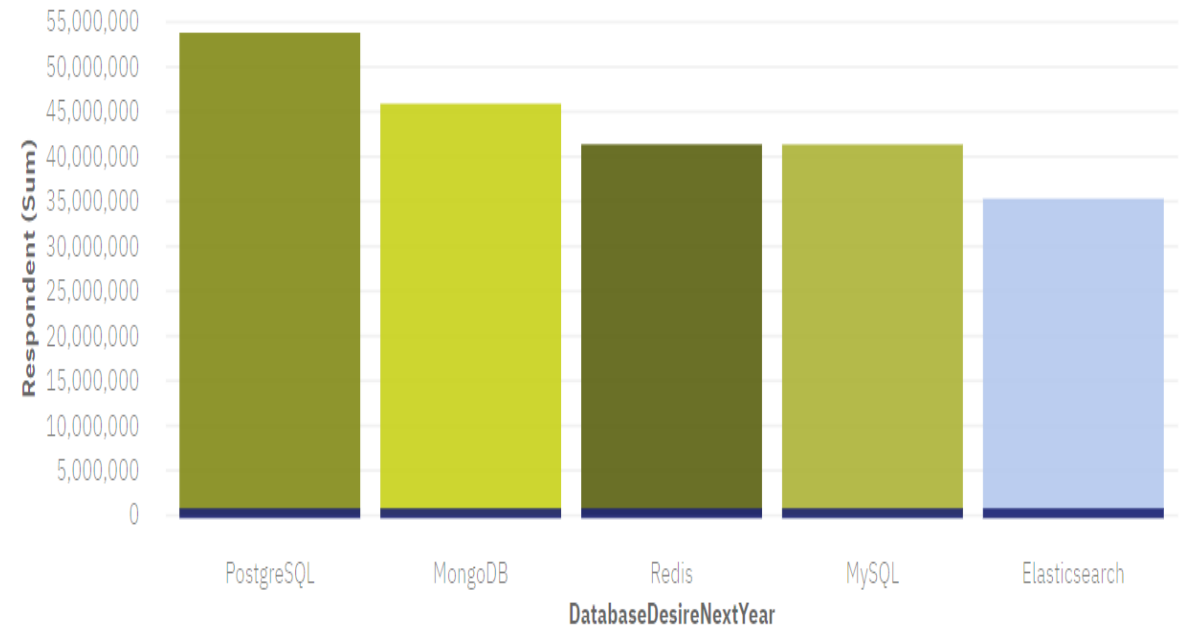
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# DATABASE TRENDS

## Current Year

Top 5 Database Worked with



## Next Year

Top 5 Database Desired Next Year

# DATABASE TRENDS - FINDINGS & IMPLICATIONS

## Findings

- MySQL is the most used database amongst respondents currently, but the 4th most desired database next year

- Postgre is the second most used database now, but the most desired next year amongst respondents

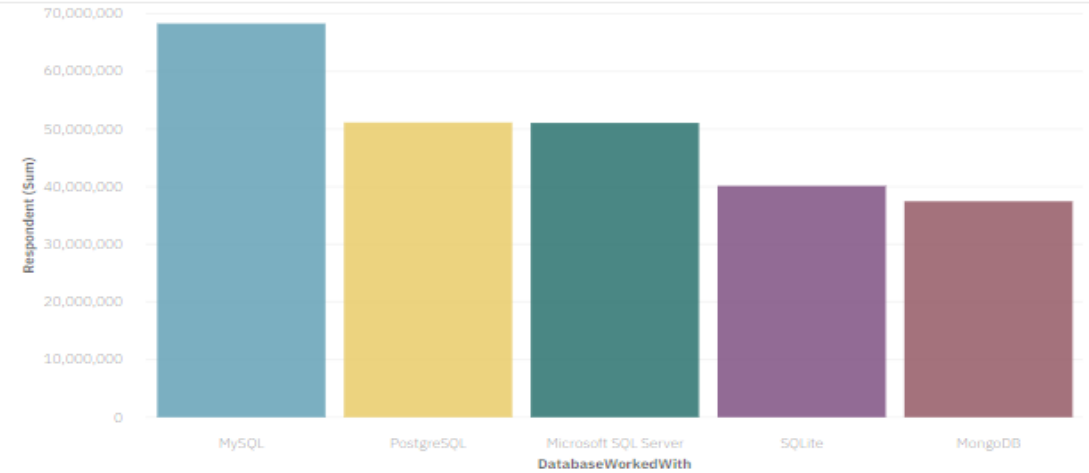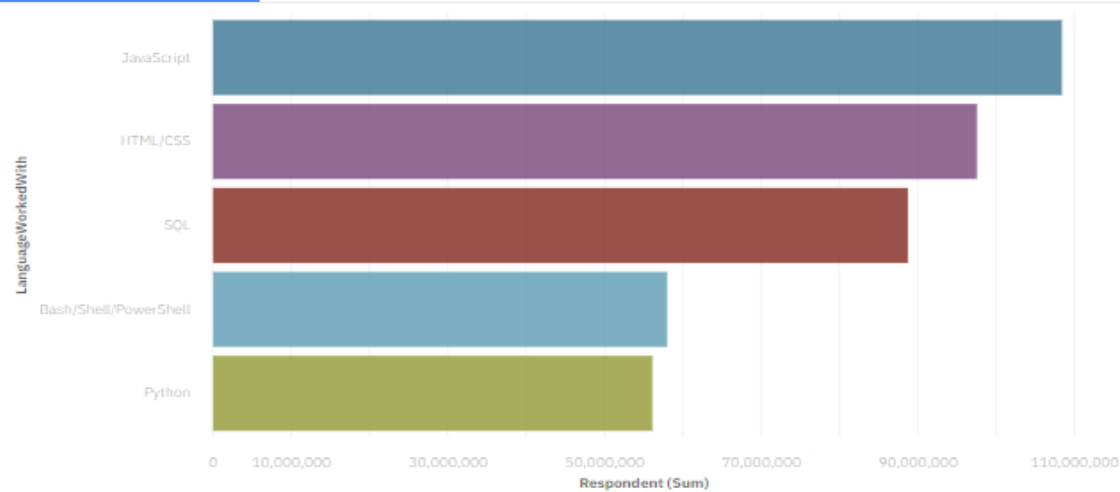- The other top 5 databases do not make it to the top 5 desired database next year respondents

## Implications

- MySQL is experiencing a decline in demand and popularity amongst respondents

- Postgre is having and upward trend in demand as reflected the by the respondents desires

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# DASHBOARD

https://eu-gb.dataplatform.cloud.ibm.com/dashboards/61b216b3-e044-4092-8e08-c81e3fa03b04/view/6e17d40379ea3cce0deee6e4079c2d52293f2255e4bb870584817b495b342597f06015c3c82d195ddd420c66f0ea465e9d

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# CURRENT TECHNOLOGY USAGE



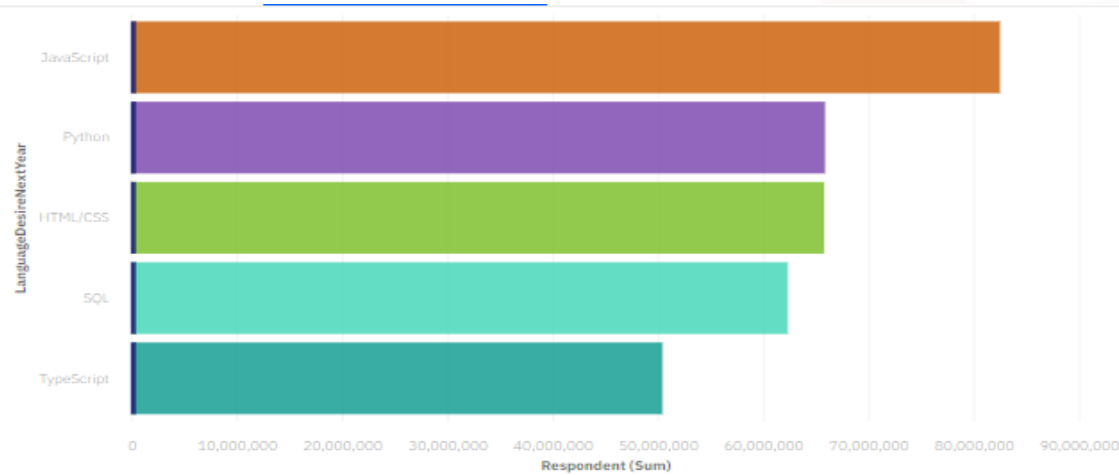Top 10 Platform Worked with

Top 10 Webframe Worked with
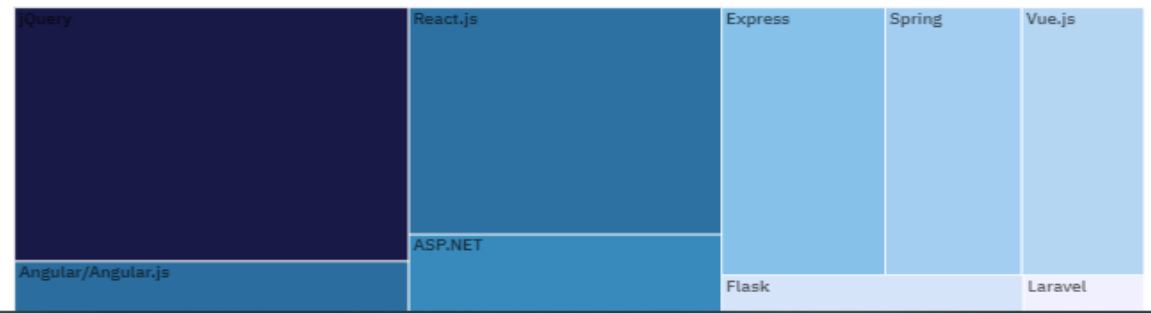
# FUTURE TECHNOLOGY TREND
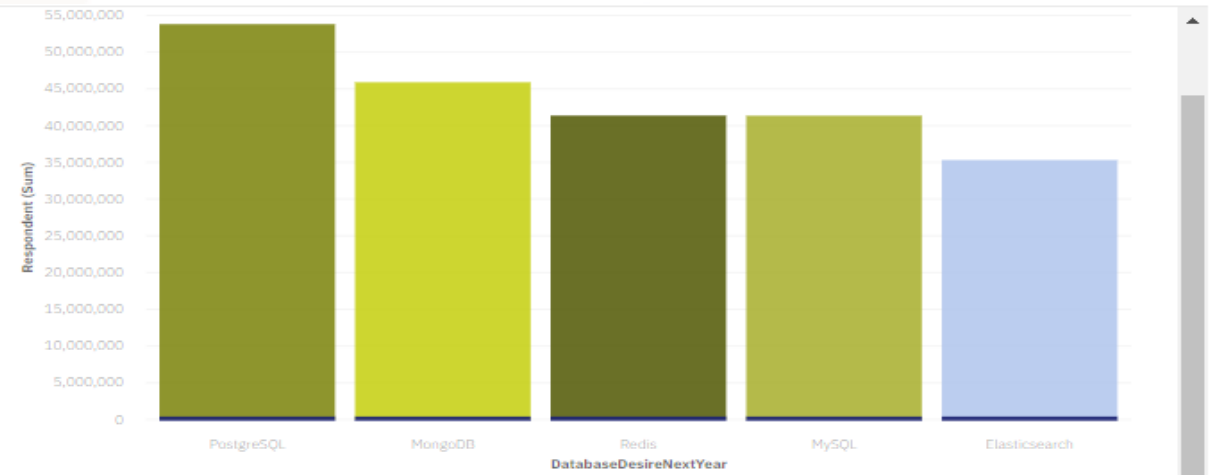


Top 10 Platforms Desired Next Year
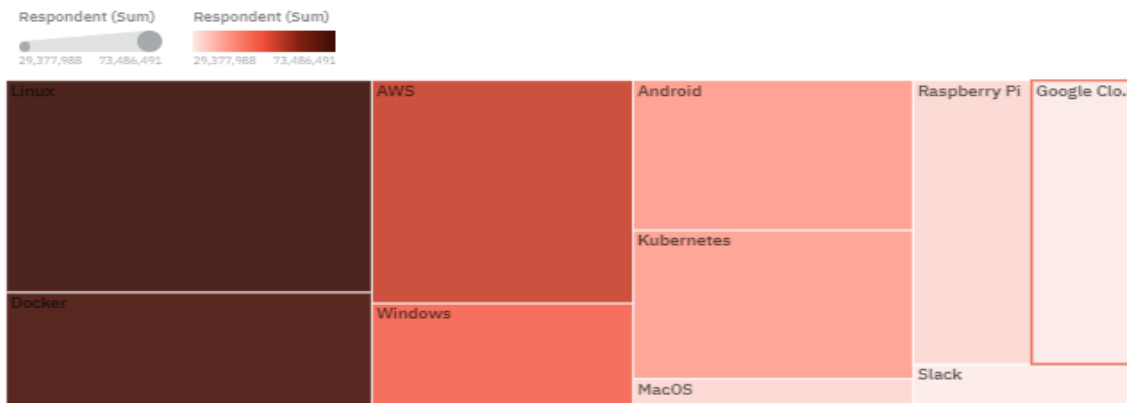
Top 10 Webframe Desired Next Year
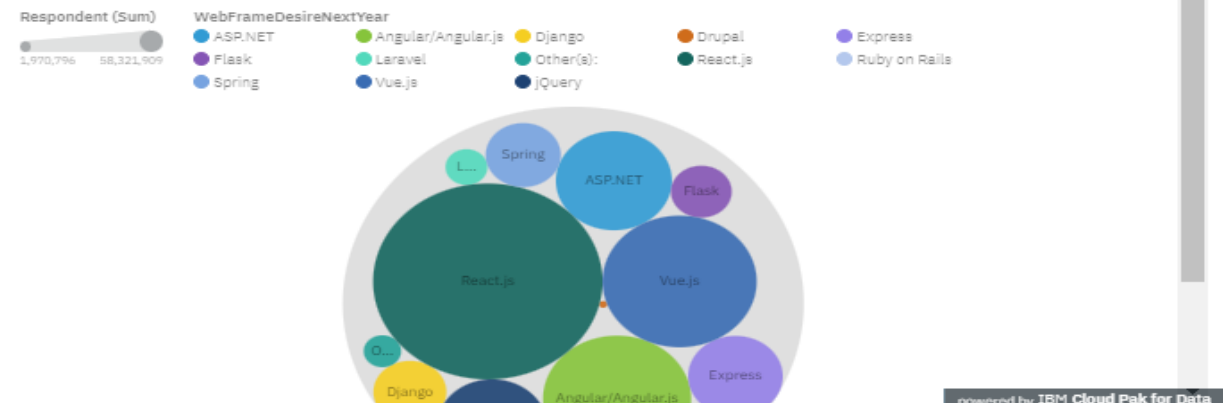
# DEMOGRAPHICS

# DISCUSSION

82% of the respondents are males with only 8% being female. There is an upward trend in the demand for Python programming language.  Majority of the respondents are aged between 22-36 years. The most used platforms are  windows and linux, but there is an increase in demand for Docker.

# OVERALL FINDINGS & IMPLICATIONS

## Findings

- Majority of the respondents are males and are aged between 22-36 years.

- Python and Postgre are the most desired language and database respectively next year.

- jQuery is the most used web frame but was 3 most desired web frame next year lagging behind react js and vue js

- react js, and vue js are the 3$^{rd}$ and 7$^{th}$ most used webframe currently but are the 1$^{st}$ and 2$^{nd}$ most desired webframe next year

## Implications

- Postgre, Python, react js and vue js are having an upward trend in demand and need as indicated by the number of respondents who desire them

# CONCLUSION

- The demand for Python programming language is on the rise

- jQuery js and vue js are having and exponential growth as indicated by the desire of the respondents

- Postgre is more likely to be the used database

- Majority of the respondents are bachelor's degree holders, Males and Aged 22-36 years