

Key insights brought from survey data 2020

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EXECUTIVE SUMMARY

This report will contain

- The presentation of insights which are captured during exploratory data analysis, data visualization .
- The finding from the dashboard created in Cognos Analytics.

INTRODUCTION

- The collected data contains information about age ,country ,years_code.
- Data used for dashboard have fields like databases, programming languages,demographic data,etc.
- Report helps to stakeholders who tends to adopt new technology.what language,database people interested to leverage in future .



METHODOLOGY

- Jobs data collected using python from API.
- Popular languages data extracted using web scraping.
- Survey data in the .csv format is collected from public source .

Programming language trends comparison between this year and next year

Top 10 LanguageWorkedWith

LanguageWorkedWith

(no value)

Bash/Shell/PowerShell

C#

HTML/CSS

Java

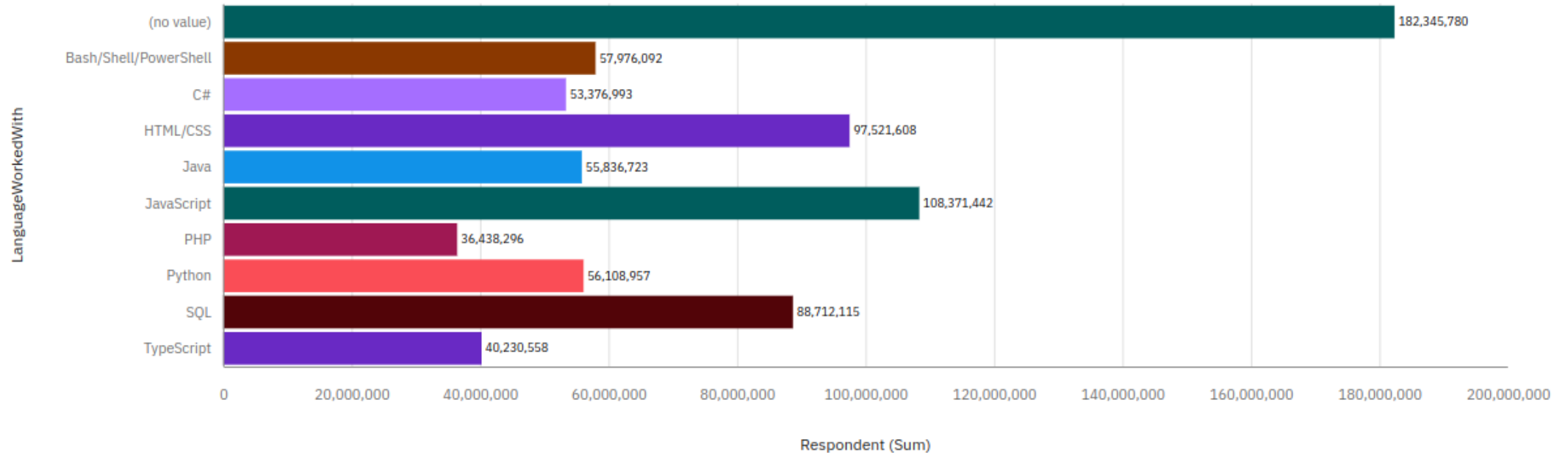
JavaScript

PHP

SQL

TypeScript

Top 10 LanguageWorkedWith



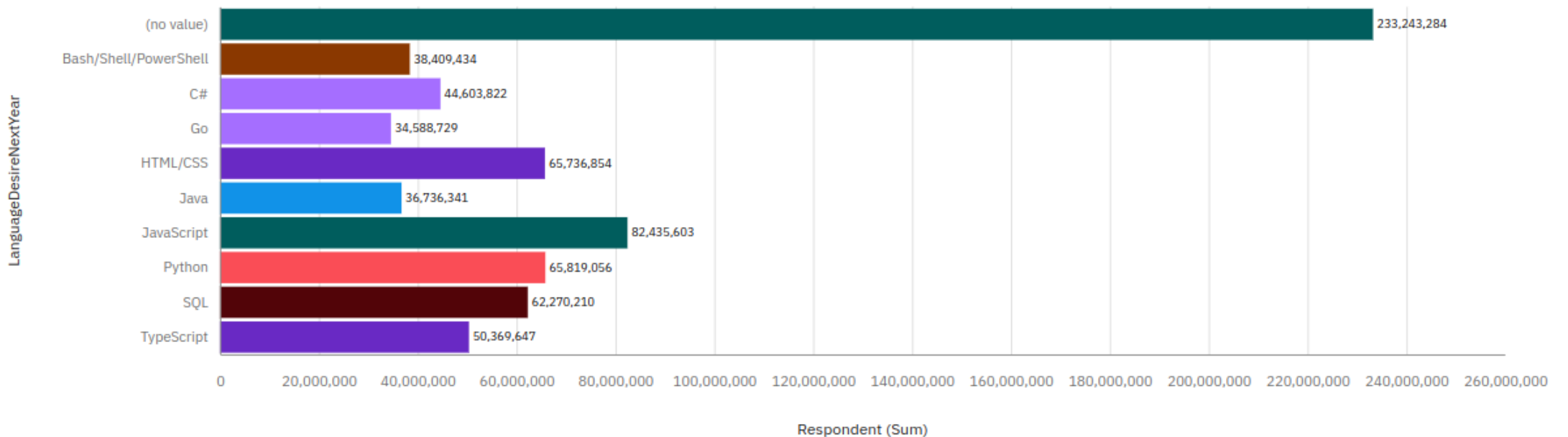
Programming language trends comparison between this year and next year

Top 10 LanguageDesireNextYear



LanguageDesireNextYear

(no value) Bash/Shell/PowerShell C# Go HTML/CSS Java JavaScript Python SQL TypeScript



Findings and Implications

- Most of the programmers not sure about next desired language they work with.
- Go language come into top 10 desired language to work with.
- PHP is going to be the deprecated following years.

Databases using trends comparision between this year and next year

Top 10 DatabaseWorkedWith



DatabaseWorkedWith

(no value)

Elasticsearch

MariaDB

Microsoft SQL Server

MongoDB

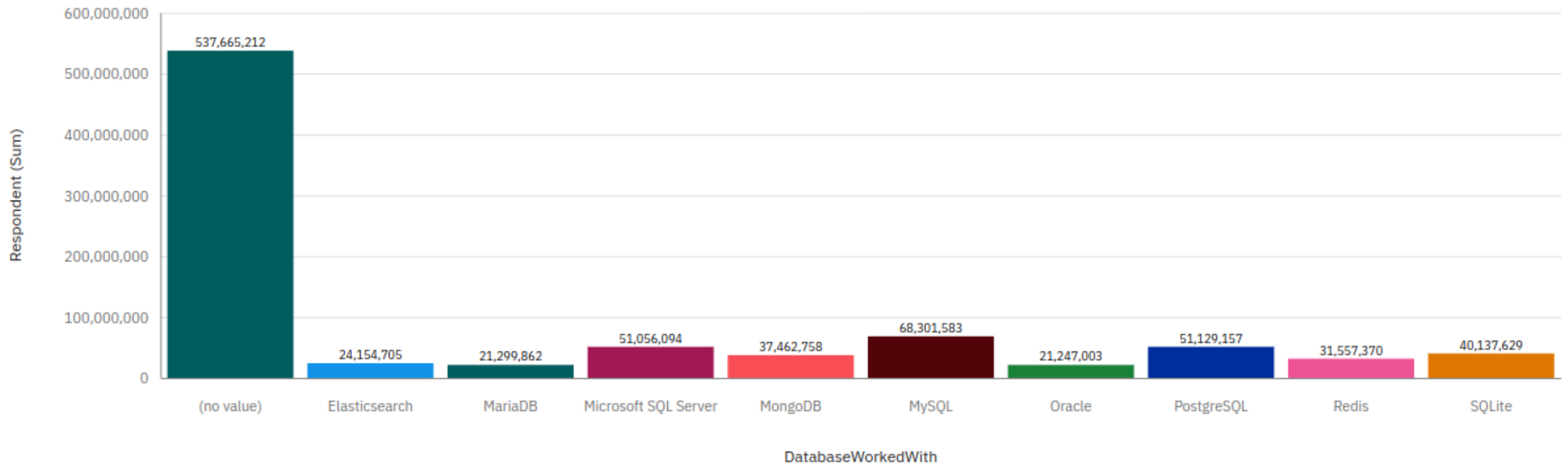
MySQL

Oracle

PostgreSQL

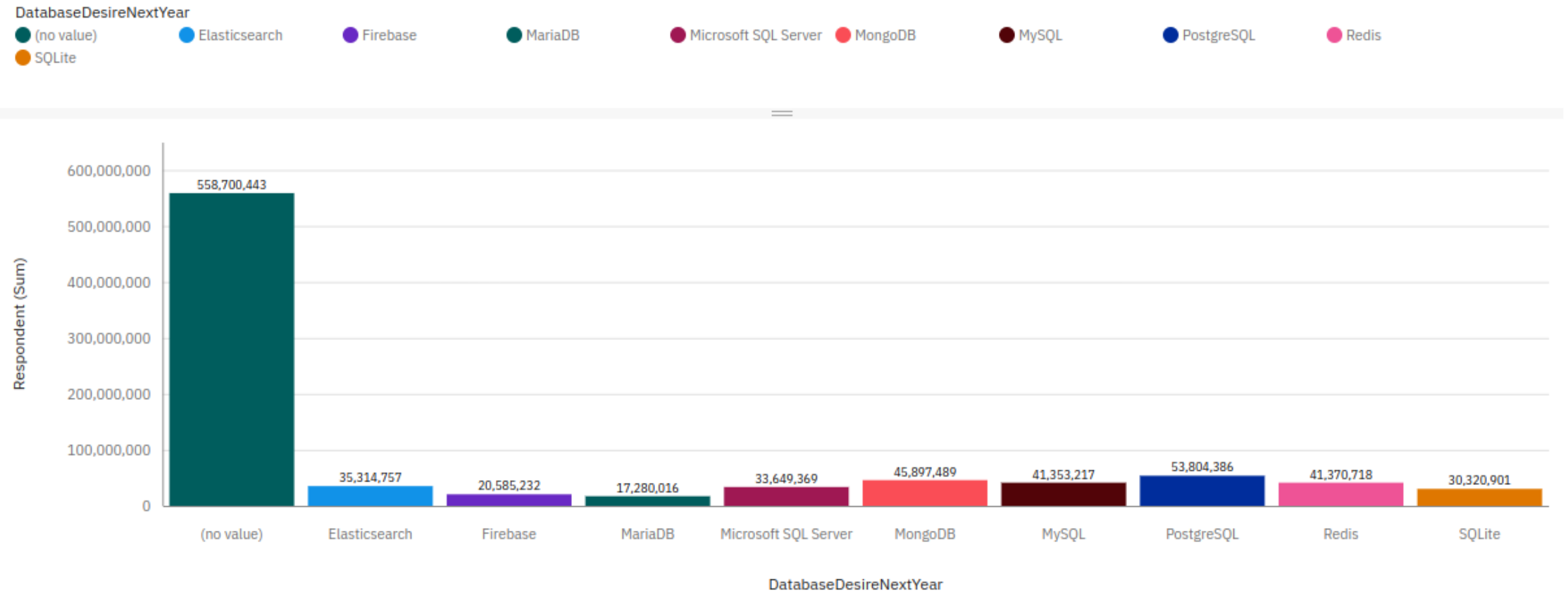
Redis

SQLite



Databases using trends comparision between this year and next year

Top 10 DatabaseDesireNextYear



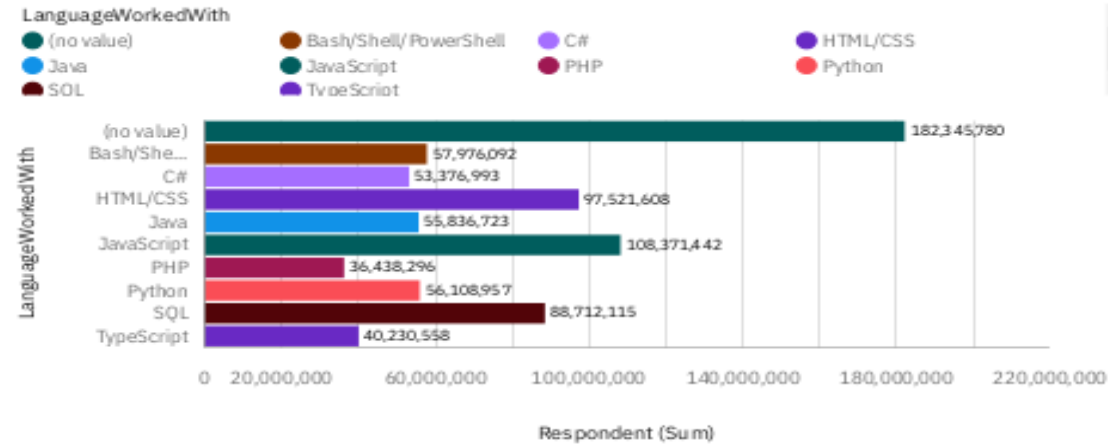
Findings and Implications

- Most of the programmers not sure about next desired language they work with.
- Users of mySQL ,microsoft SQL server are mostly wanting to shift to mongoDB,postgresql.
- Oracle database came into top 10 desired databases working with.

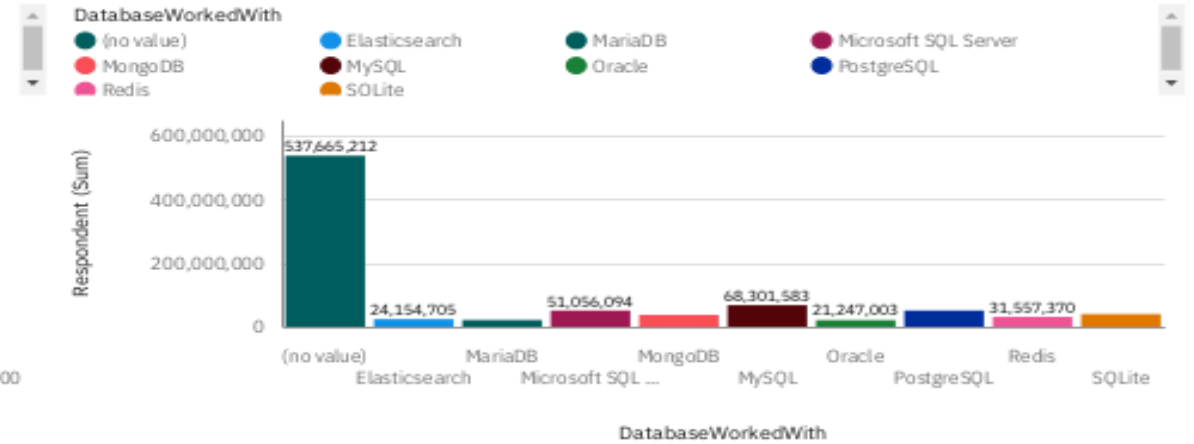
DASHBOARD

Current Technology Usage

Top 10 LanguageWorkedWith



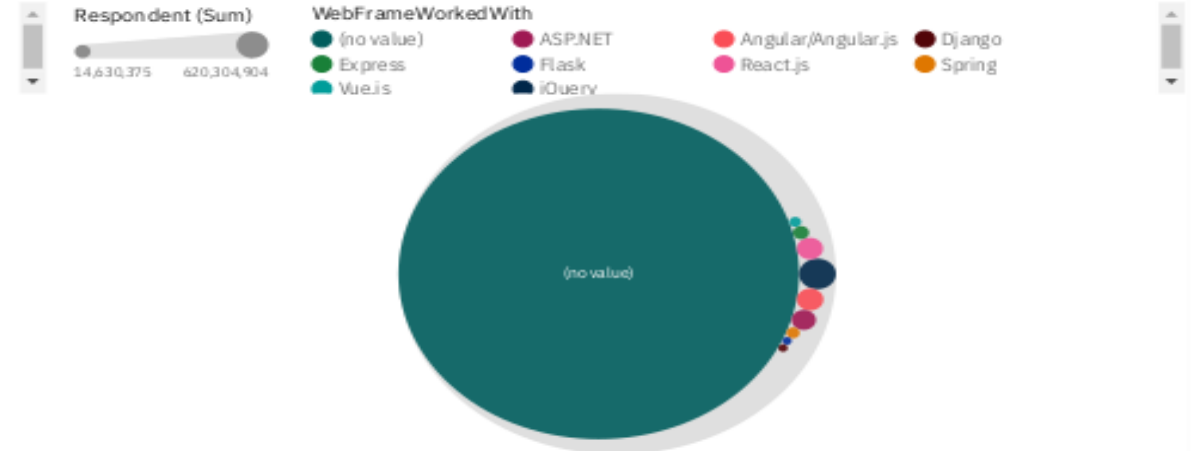
Top 10 DatabaseWorkedWith



PlatformWorkedWith



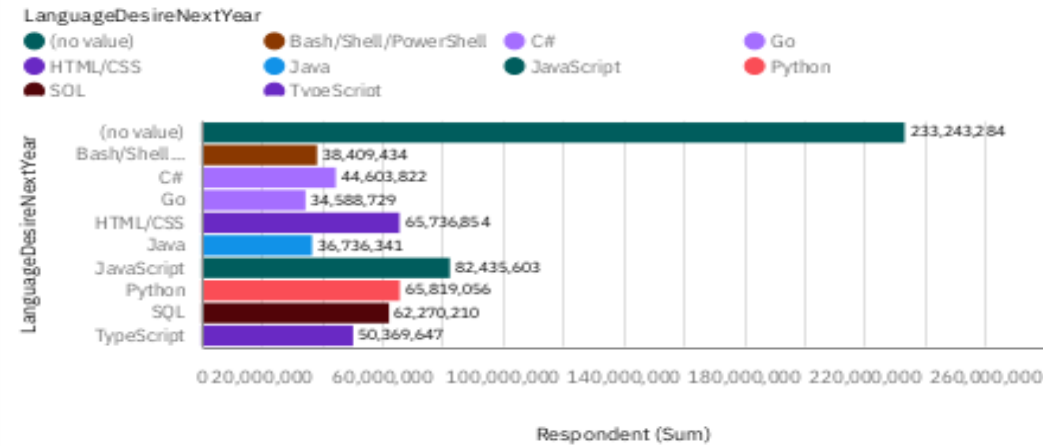
Top 10 WebFrameWorkedWith



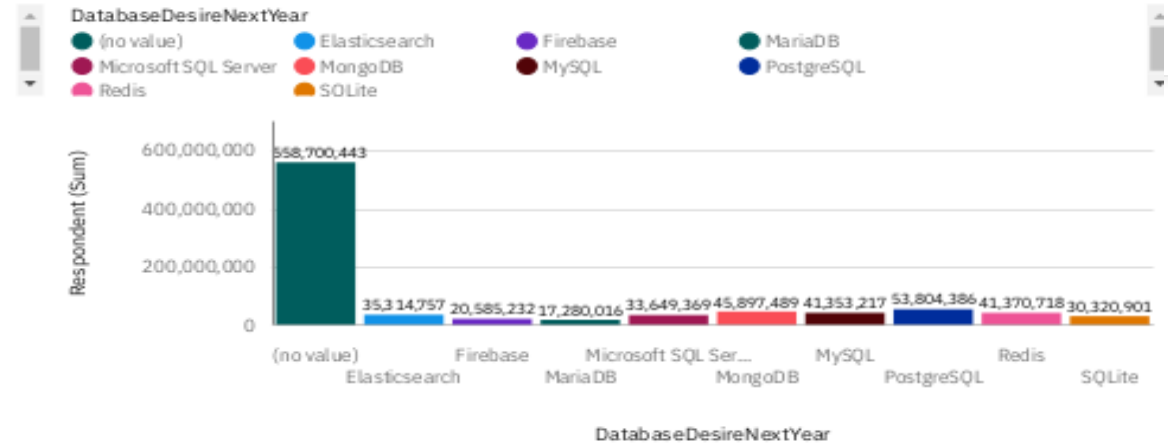
DASHBOARD

Future Technology Trend

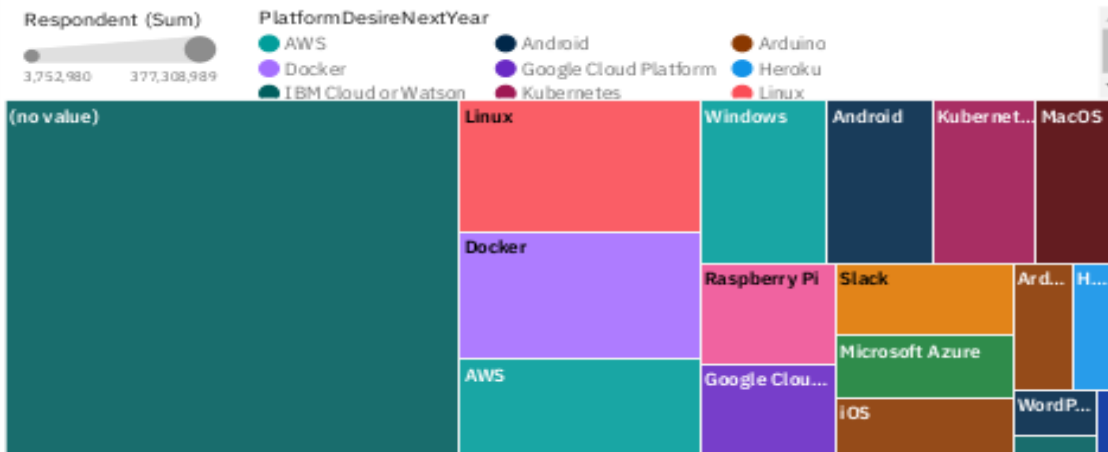
Top 10 LanguageDesireNextYear



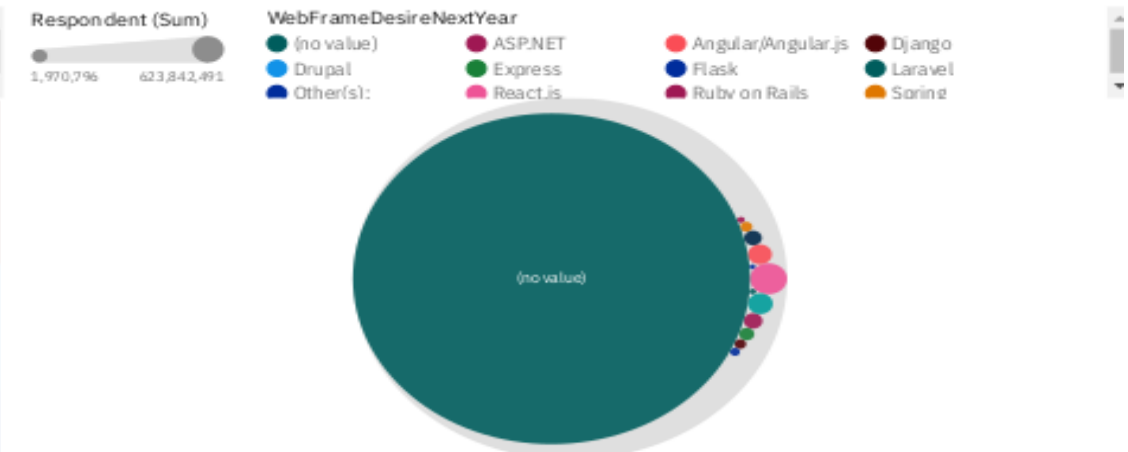
Top 10 DatabaseDesireNextYear



PlatformDesireNextYear



Top 10 WebFrameDesireNextYear

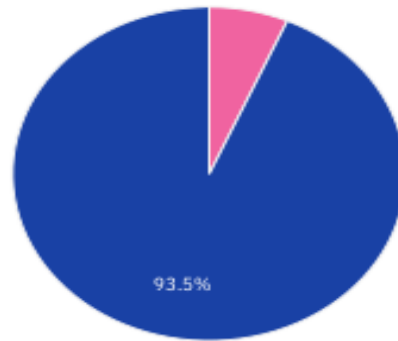


DASHBOARD

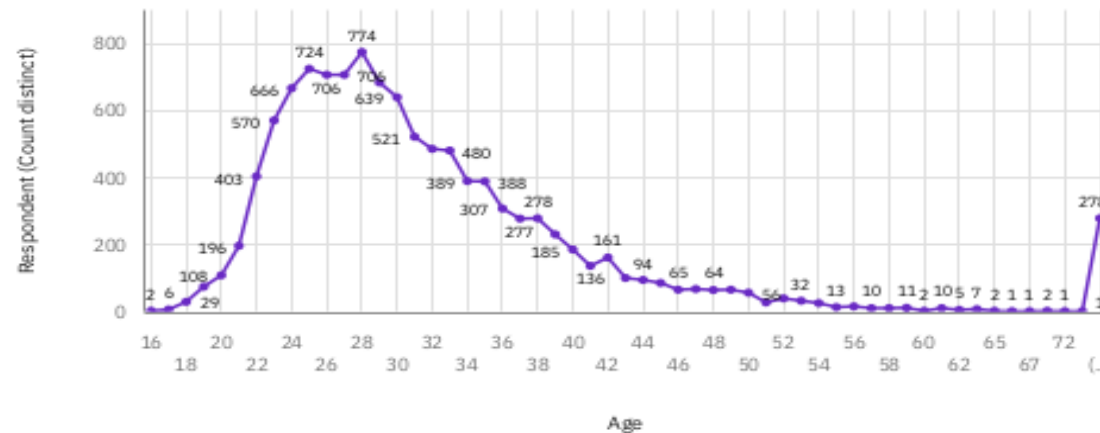
Demographics

Respondent classified by Gender

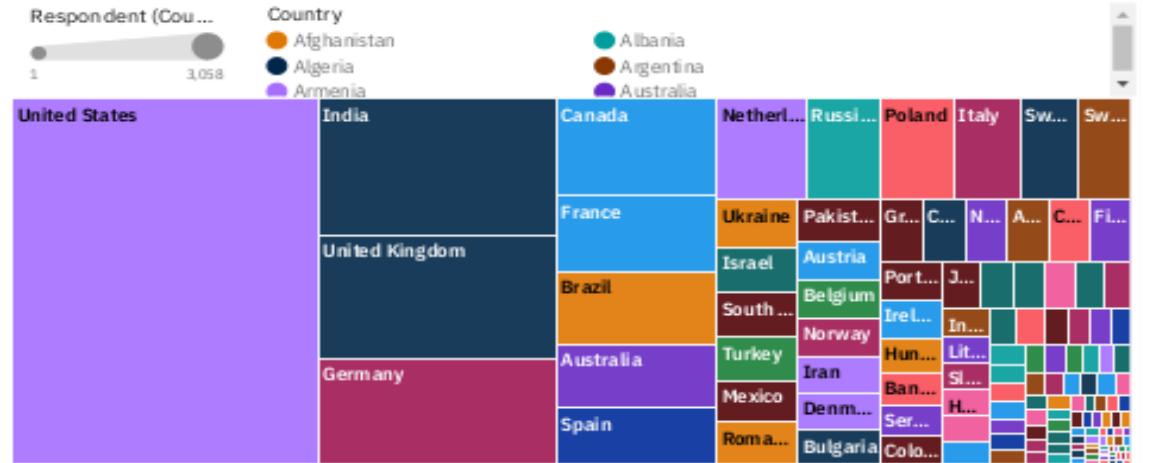
Gender
● Woman ● Man



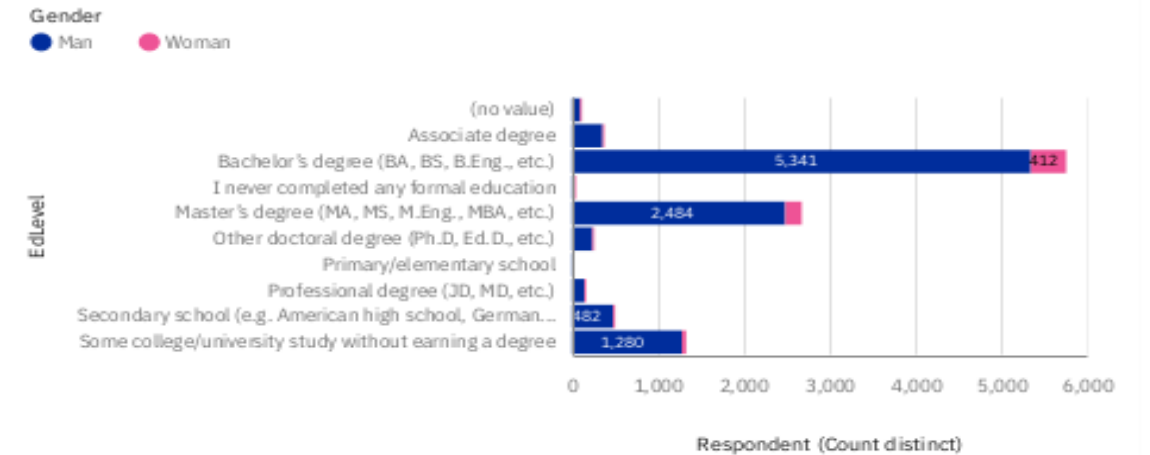
Respondent Count by Age



Respondent Count for Countries



Respondent by EdLevel colored by Gender



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- URL for dashboard :<https://github.com/danie-bit/Capstone-files/blob/main/final%20assessment.pdf>



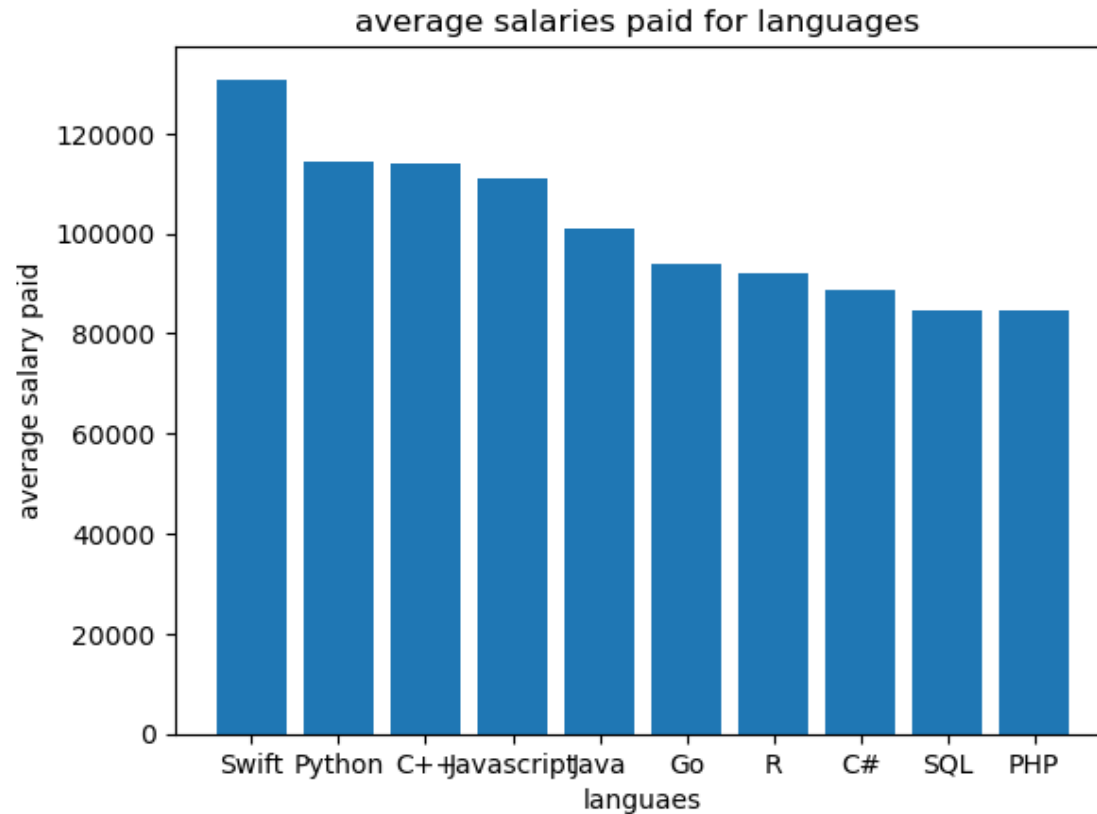
DISCUSSION


- Most of the fields have null values .
- From the demographic data, men dominated women in headcount.
- 26 - 32 age group people are the highest populated group.
- Many are graduated in bachelor degree than any other group or stream.

CONCLUSION

- In the data technologies file ,we encountered much more null values than the original values in multiple fields.
- Linux ,Windows ,Docker continuing their significance .
- United states have very high respondants sending india to second position even though india has very much population than US.

Language-salary paid (visualization)



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- I put my efforts in bringing out key insights from the data using comparisons between multiple slides by very keen observation.
 - Usage of tools like python for data cleaning and cognos analytics.
 - I used some effects in the presentation which gives the stakeholders an embracing touch.