SURVEY ANALYSIS

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11TH JUNE, 2024

OUTLINE

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

EXECUTIVE SUMMARY

- This is an analysis of a survey carried out among Technical staffs of a company.
- Descriptive analysis
  - Most of the respondents are men and have masters degree.
  - Majority are within the age groups of 40 – 60 years and a higher number of respondents are from Afghanistan.
- Most of the respondents currently uses java as a programming language and query database with MySQL.
- The commonest webframe used is iQuery and the platform commonly used include Windows, Linus and AWS.

INTRODUCTION

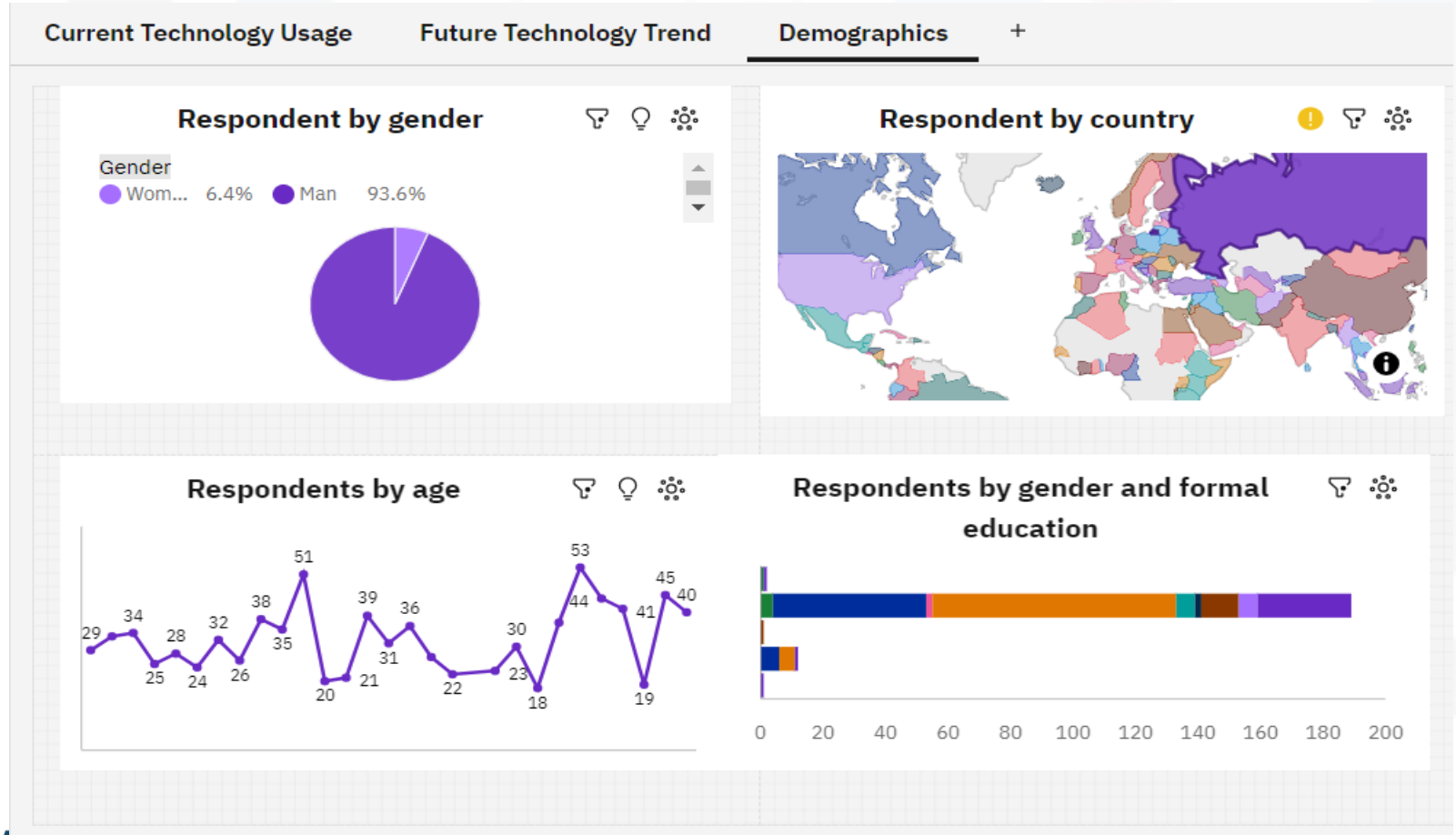
- The advent of Artificial Intelligence has necessitated employees to ensure continuous upgrade in their skills in order to remain relevant in the field.
- Although some languages and technical softwares have been in existence for quite an age and still remain relevant, new tools are being developed to enhance efficiency.
- It is therefore essential to create awareness and make a research on the adoption of these new tools.

METHODOLOGY

- Data was provided by IBM for capstone project and downloaded as csv file.
- Data exploration and wrangling was done with python.
- Visuals and dashboard was created with IBM cognos analytics.
- Result was downloaded as pdf and uploaded to Github.

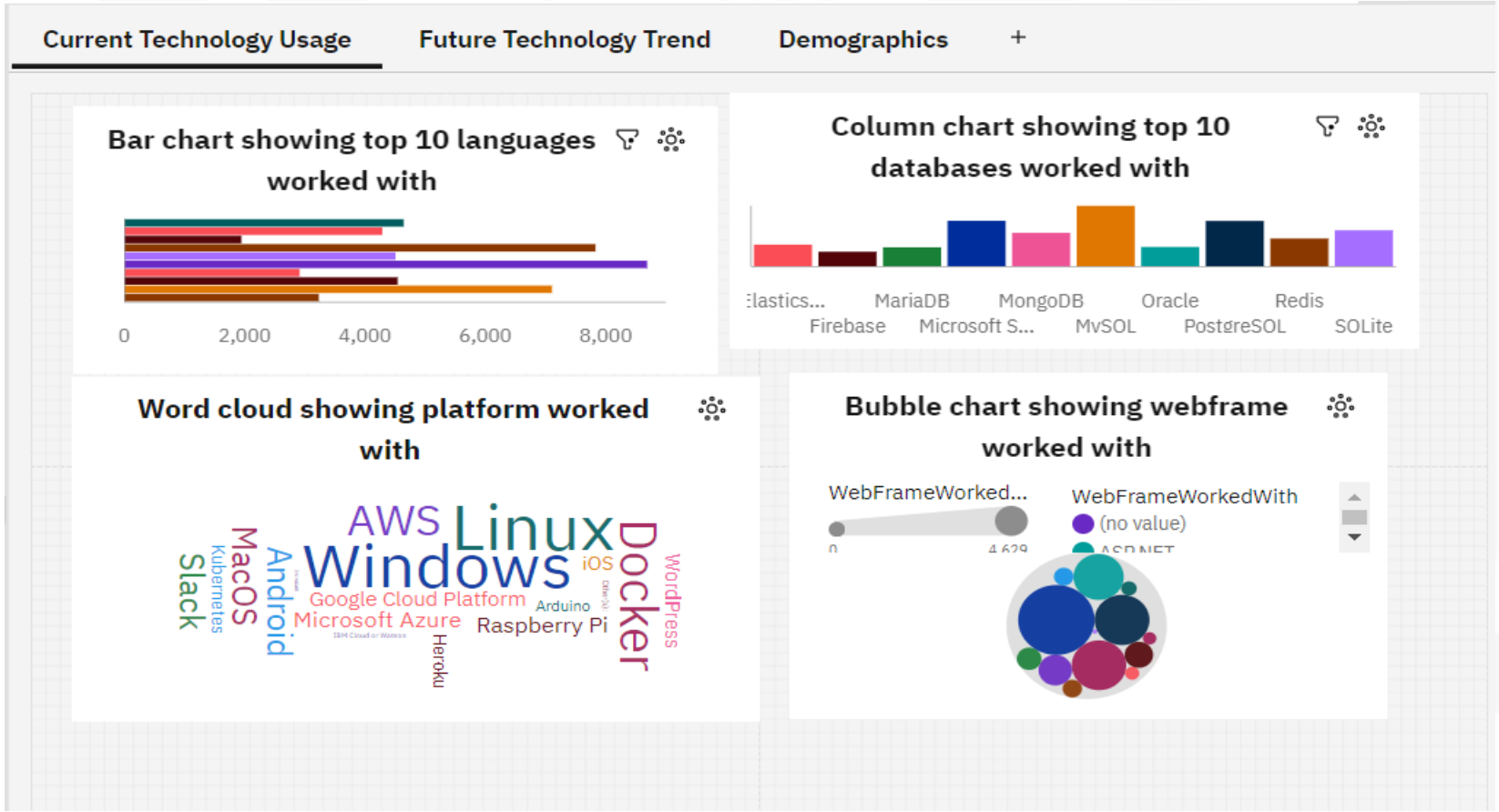
RESULTS

Dashboard showing the demographics of participants



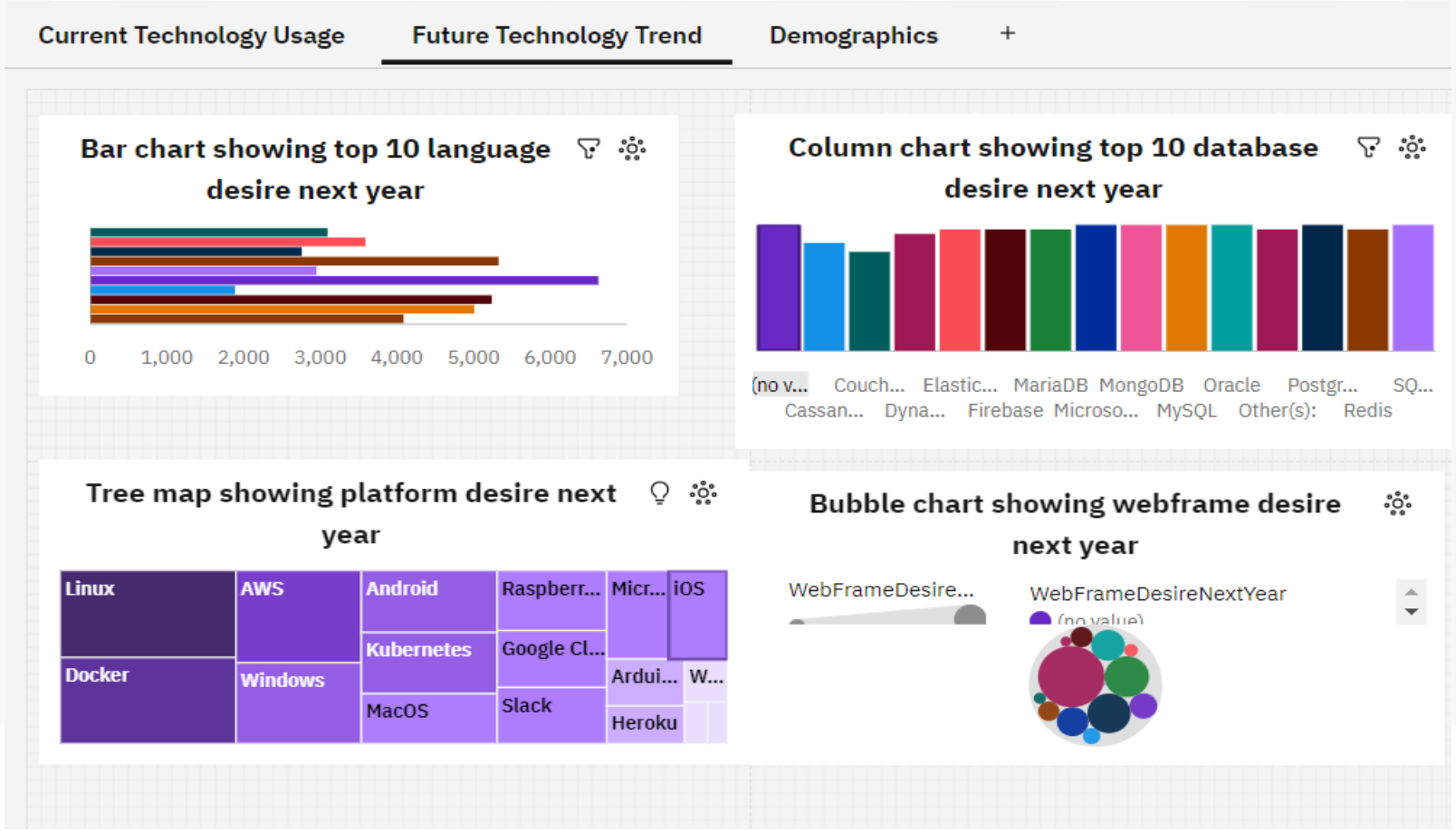
RESULTS

Dashboard showing the technologies being used at present



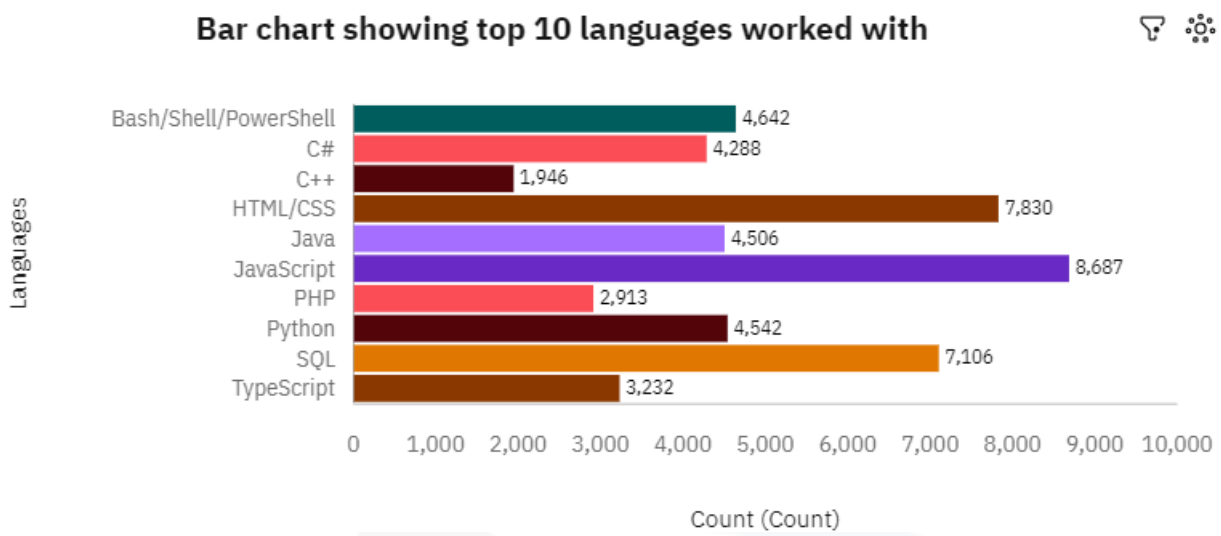
RESULTS

Dashboard showing technologies respondents intend to use in the future

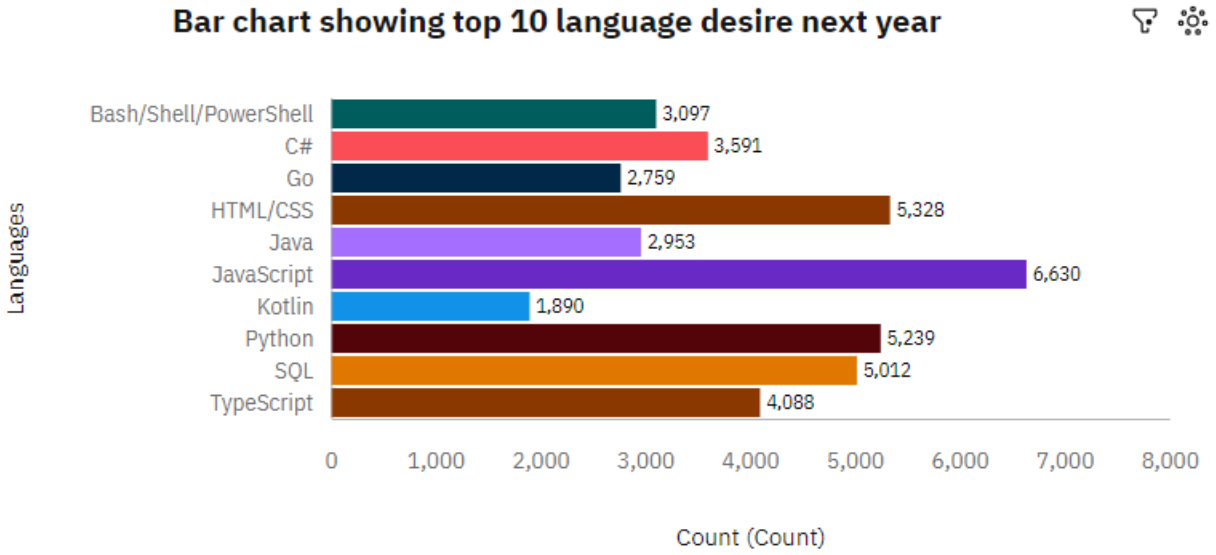


PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

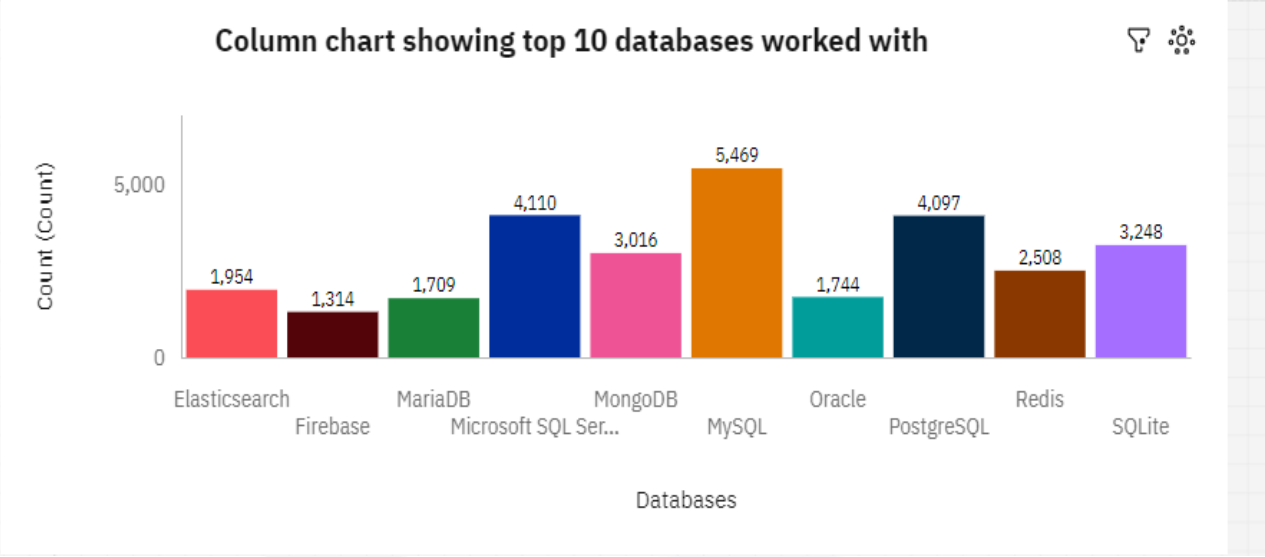
- Javascript ,html/CSS still remain the top language of choice by respondents.
- More respondents are looking forward to learning python in the coming year.
- Majority of the respondents appear not to be interested in C++

Implications

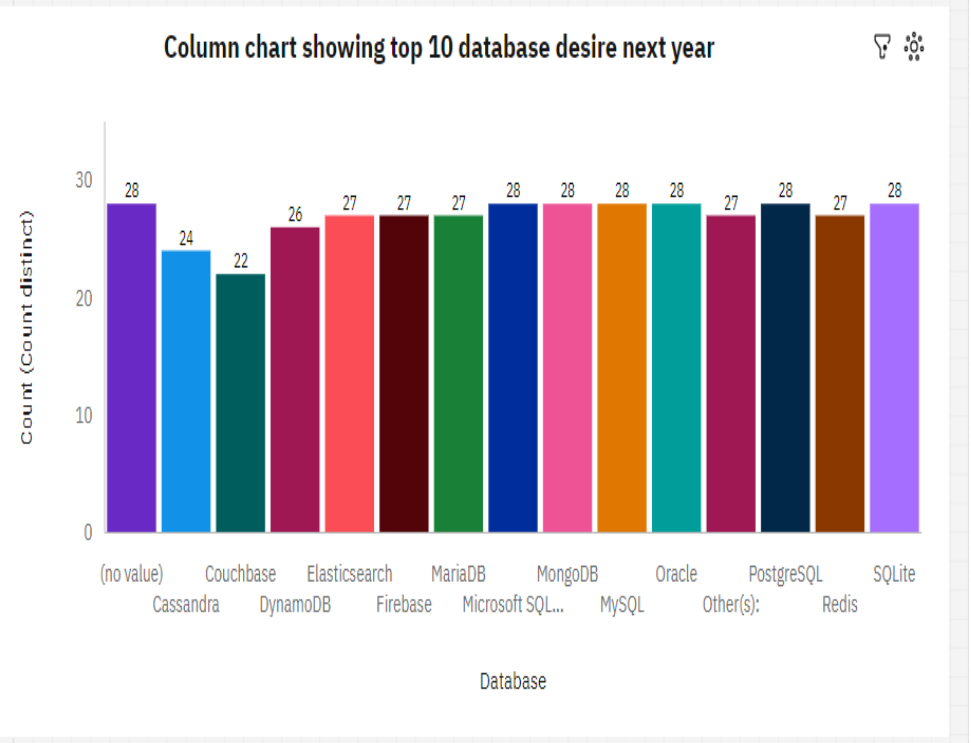
- More web and software developers will emerge.
- More companies will likely include python in their job requirement for the coming year.
- C++ will most likely become obsolete.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Majority of the respondents make use of MySQL, Postgresql and Microsoft SQL server at present.
- There is no significant difference in their choice of database for the coming year

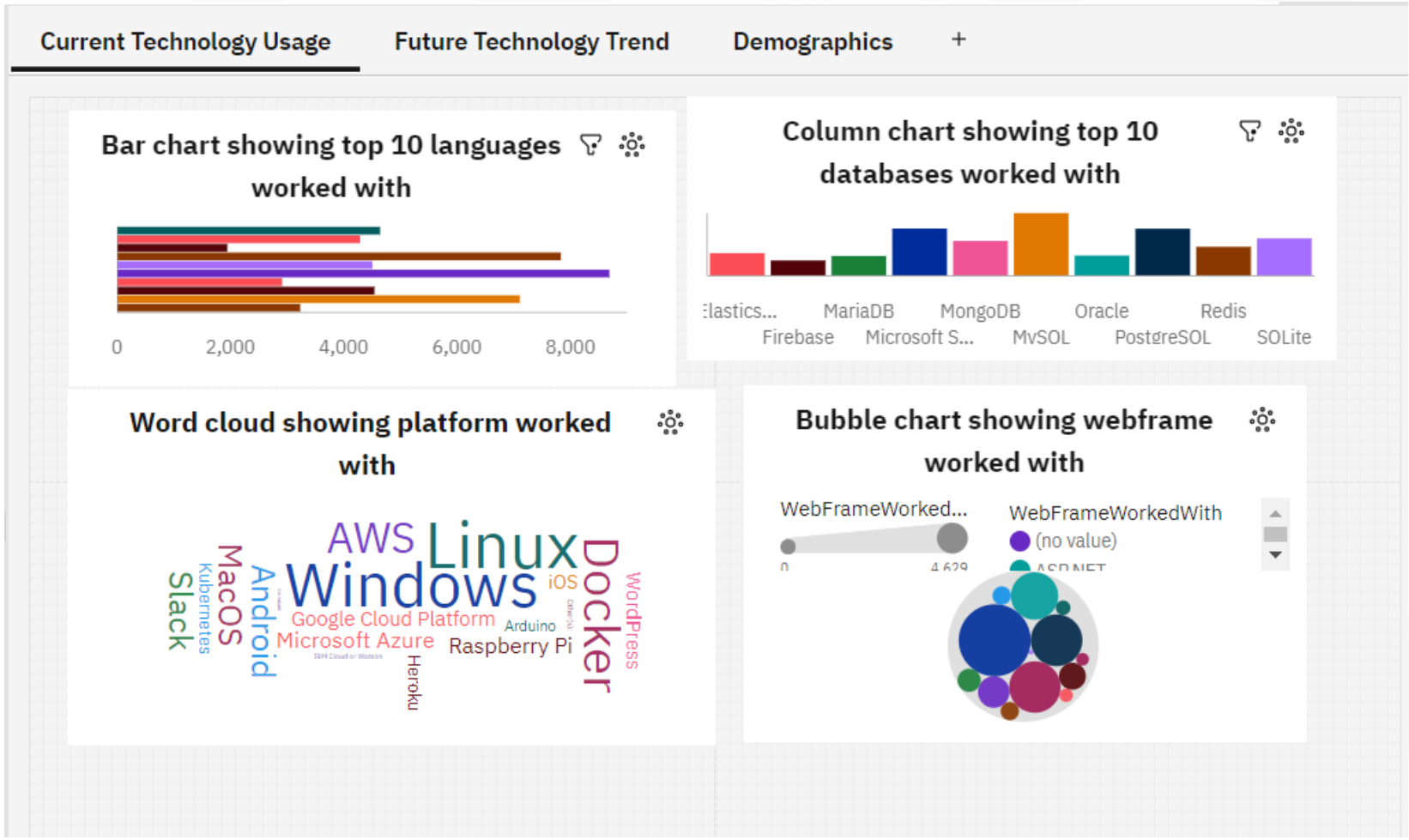
Implications

- MySQL, Postgresql and Microsoft SQL server are likely to be overloaded.
- More job opportunities for expert in any database will be created

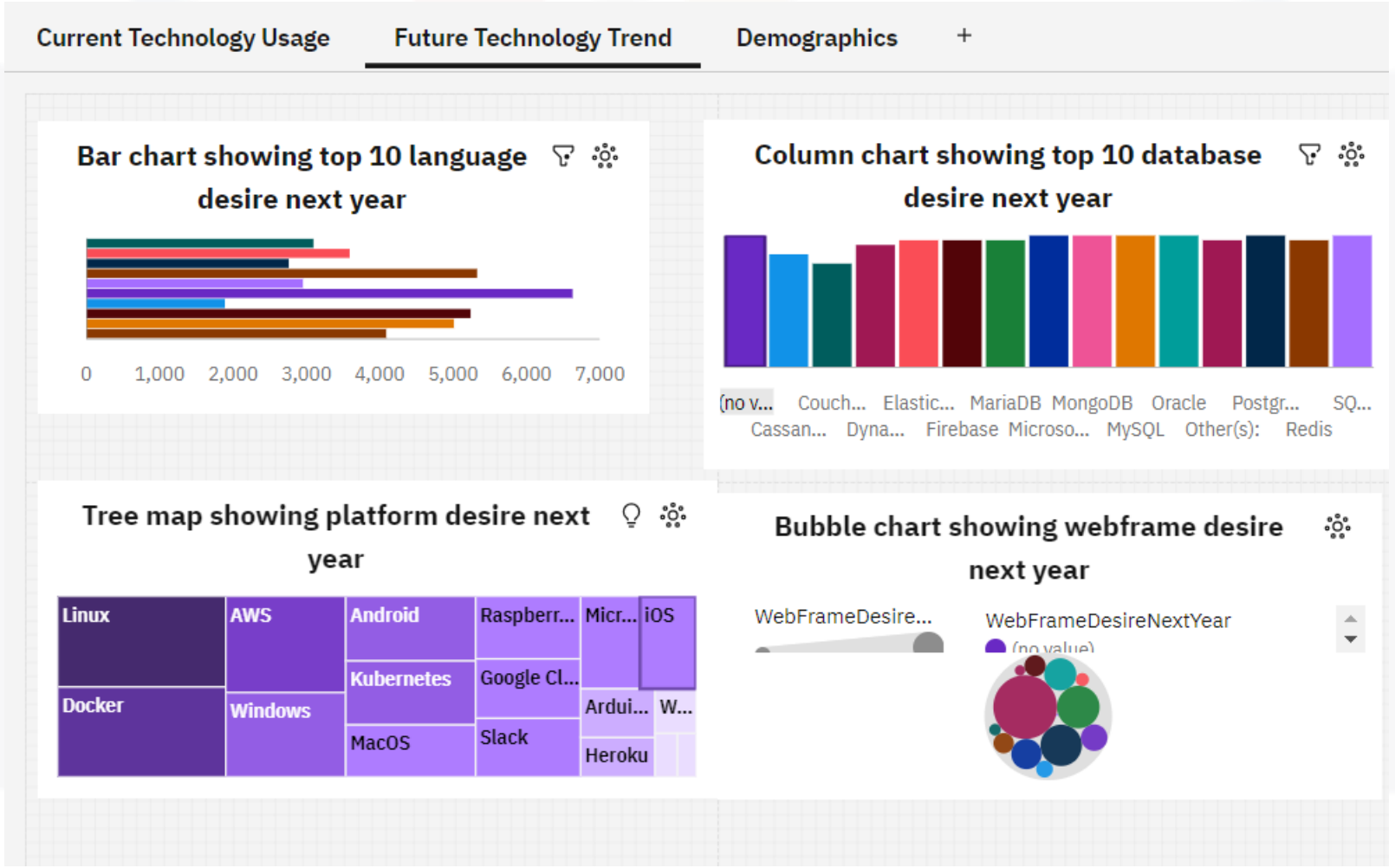
DASHBOARD

https://github.com/kayodeolubunmi/dashboard/blob/main/Capstone%20project%20dashboard.pdf

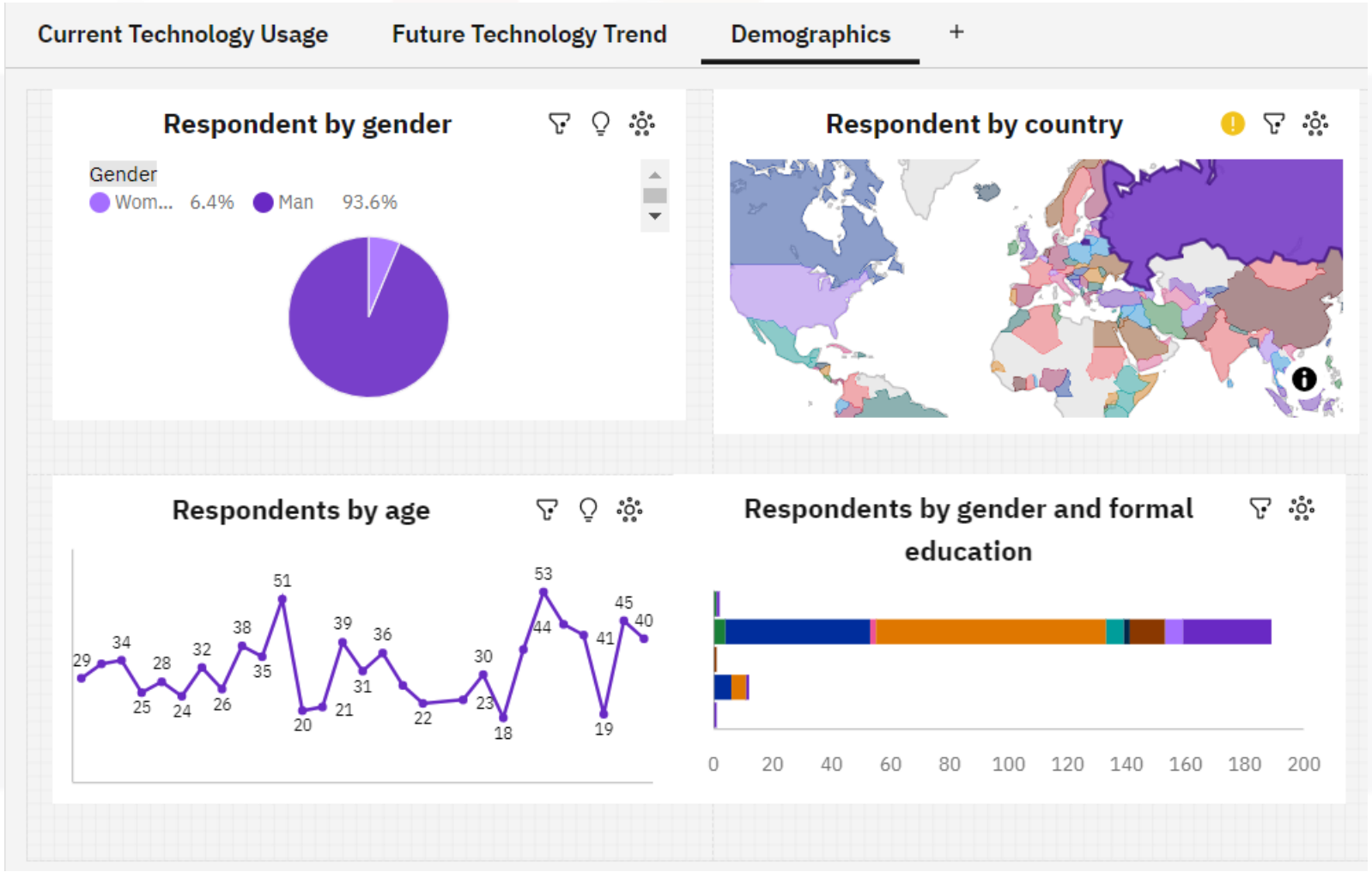
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION

- Majority of those in the technical sector are men and have postgraduate degrees.
- Majority of the respondents are within the age groups of 40 – 60 years and a higher number of respondents are from Afghanistan.
- Although most of the respondents uses java as programming language, more people intend to learn python.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Majority of the respondents are men.
- Most of the respondents are those with graduate degrees
- Java still remain the programming language of choice currently being used and intended to be used in the coming year.

Implications

- New job postings may have higher demand for java.
- Undergraduate might not be opened to job opportunities

CONCLUSION

- Most of the common databases are intended to be learnt by the respondents.
- In addition, Java still remains significant while C++ is becoming obsolete.

APPENDIX

Job postings data

	A	B	C
1	**Locations**	**Frequency**	
2	Washingto	5316	
3	Detroit	3945	
4	Seattle	3375	
5	Houston	3339	
6	New York	3226	
7	Boston	2966	
8	Baltimore	1263	
9	Dallas	1208	
10	New Orlec	817	
11	Los Angele	640	
12	San Franci	435	
13	Austin	434	
14	Philadelph	41	
15			

Popular languages data

	A	B	C
1	**Language**	**Average Annual Salary**	
2	Swift	130801	
3	Python	114383	
4	C++	113865	
5	Javascript	110981	
6	Java	101013	
7	Go	94082	
8	R	92037	
9	C#	88726	
10	SQL	84793	
11	PHP	84727	
12			

JOB POSTINGS

POPULAR LANGUAGES