Capstone Project

MUHLIS CM

21/04/2021

OUTLINE

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

EXECUTIVE SUMMARY

- Data Collection
- Data Wrangling
  - Removing Duplicates
  - Find & Impute missing values
  - Normalizing Data
- Explanatory Data Analysis (EDA)
- Data Visualization
- Building Dashboards

INTRODUCTION

- It's a valuable effort to find the most populat programming language and database
- Which country contribute more to survey
- Best platform for technical works
- Most used and desired web frame works
- The participation of educated people in servey
  - Contribution based on the gender

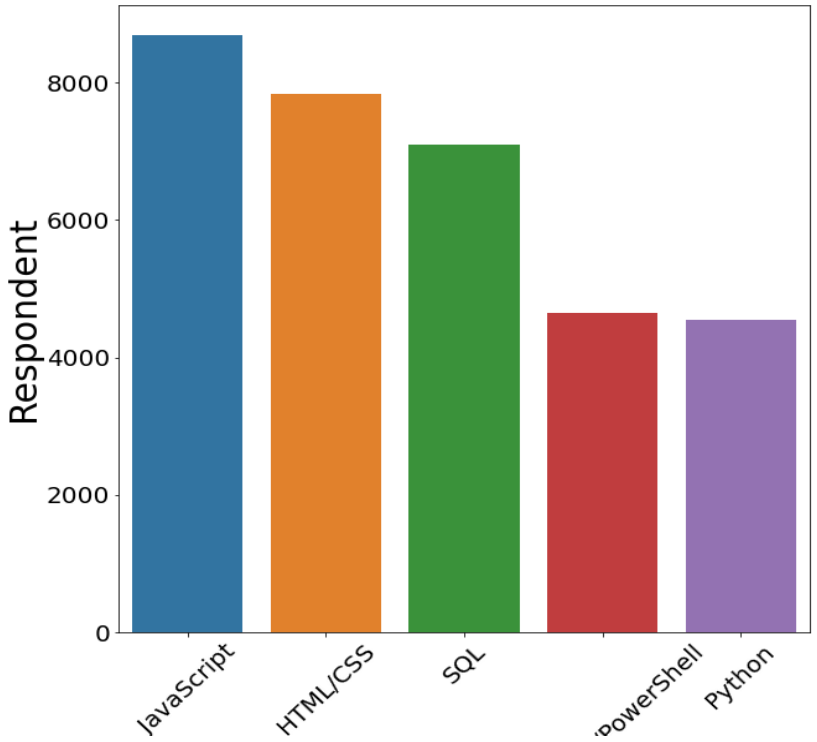
METHODOLOGY

- Data collected from
- git hub job posting using github api
- m5_survey_data_demographics dataset
- m5_survey_data_technologies
- Python is used for data analysis, wrangling and visualization
- Dash boards are created using Congnos Analytics

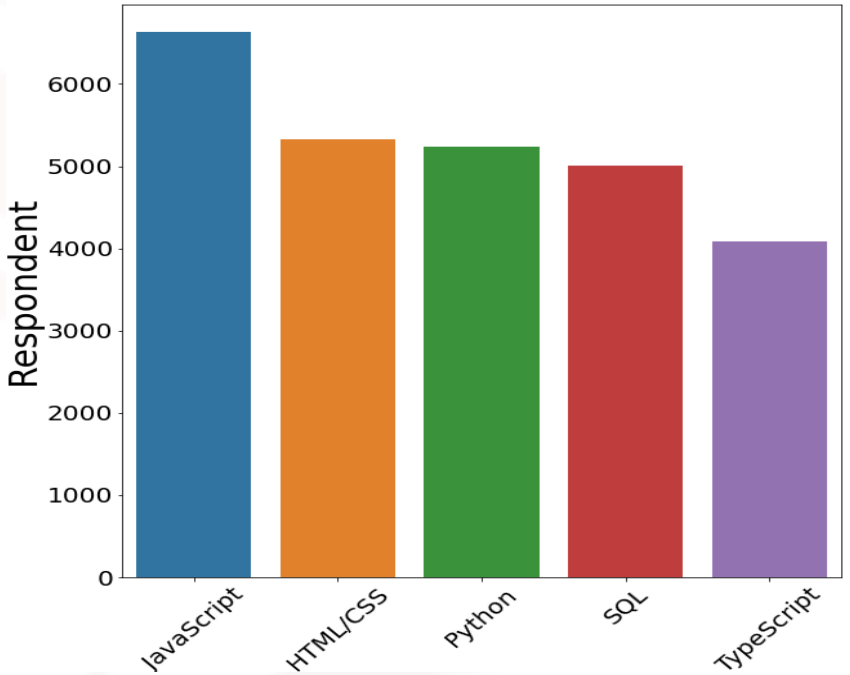
RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

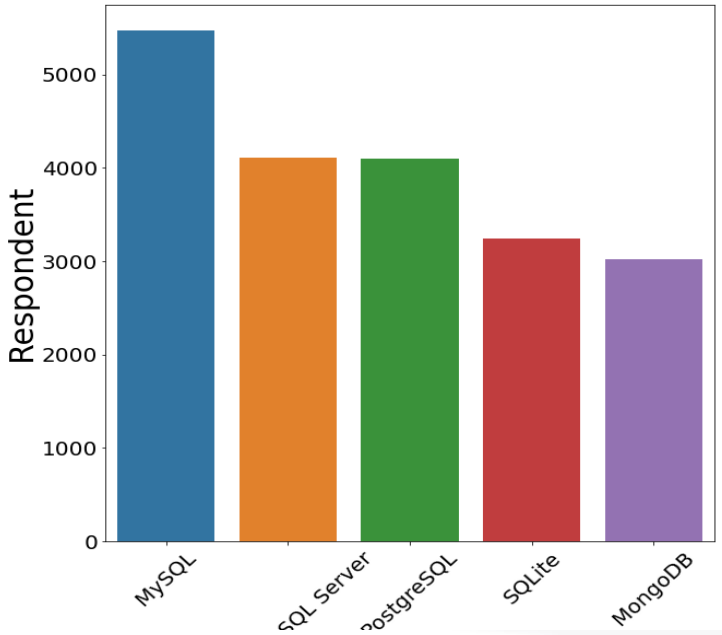
- Python improved rank
- Sql lost 1 position
- Java script and Html/ Css lead in two studies

Implications

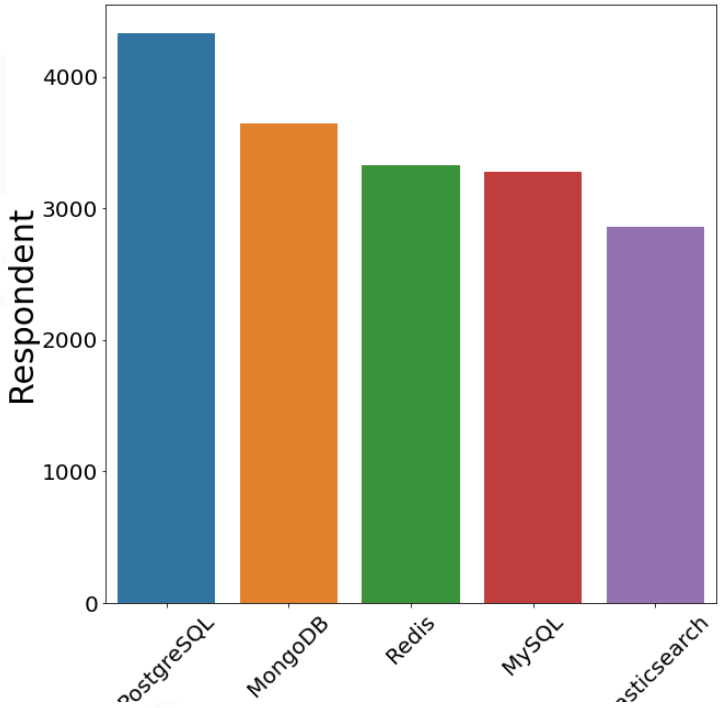
- Python jumped to 3 from 5
- Type Script is more popular than c, java, C++
- Python has potential to overcome other language in coming years

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Current Year

- MySql is most sought after
- SQL in 2nd and 3rd position
- Sqllite and mangodb is in first 5

Future Trend

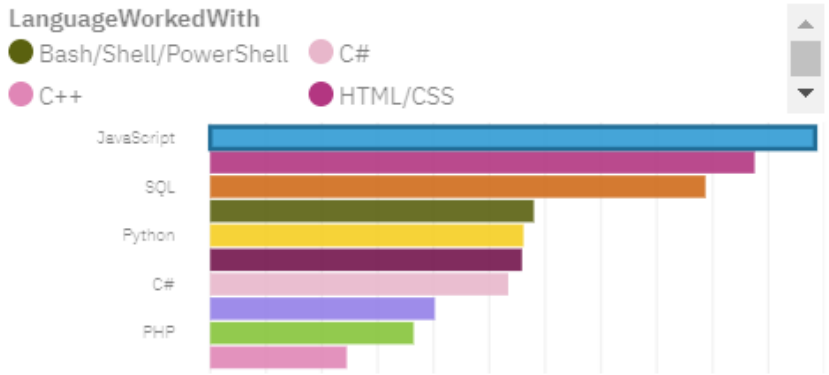
- Postgrel sql is leading
- MySql droped to 4
- Mango db jumped to 2 and sqlite and Microsoft sql server are out of the top 5

DASHBOARD

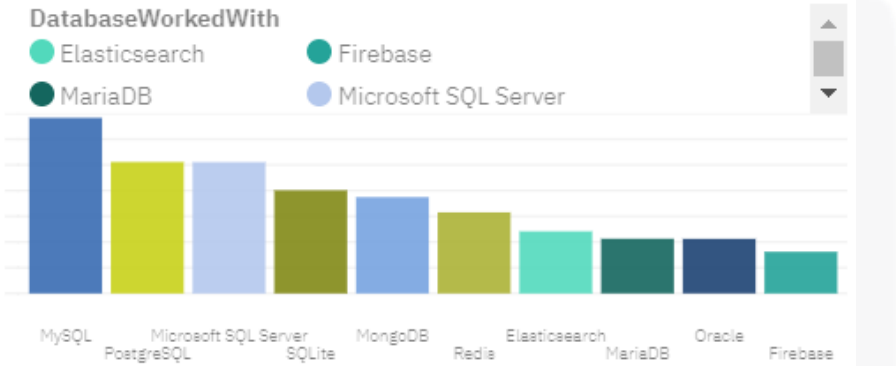
https://eu-gb.dataplatform.cloud.ibm.com/dashboards/4dd8e585-435b-485f-86df-05ce0722f39c/view/4704f60e3ea008c468c8f6e4079e79057a35200eb2bbd20486817b495e647297f06a4690c82d4d5edd455361f2bd445cc1

DASHBOARD TAB 1

Top 10 Language Worked With

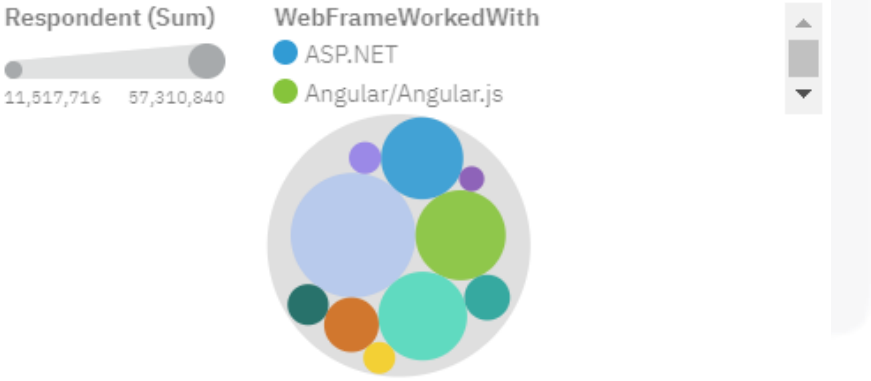


Top 10 Database Worked With

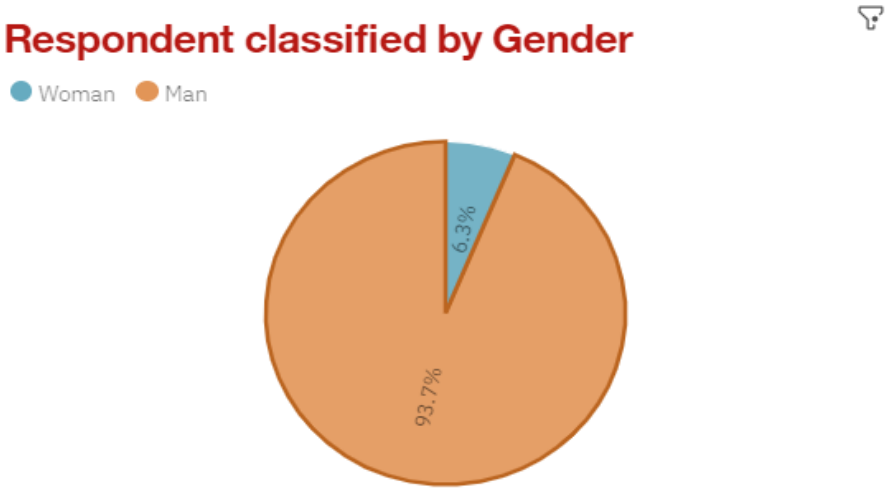


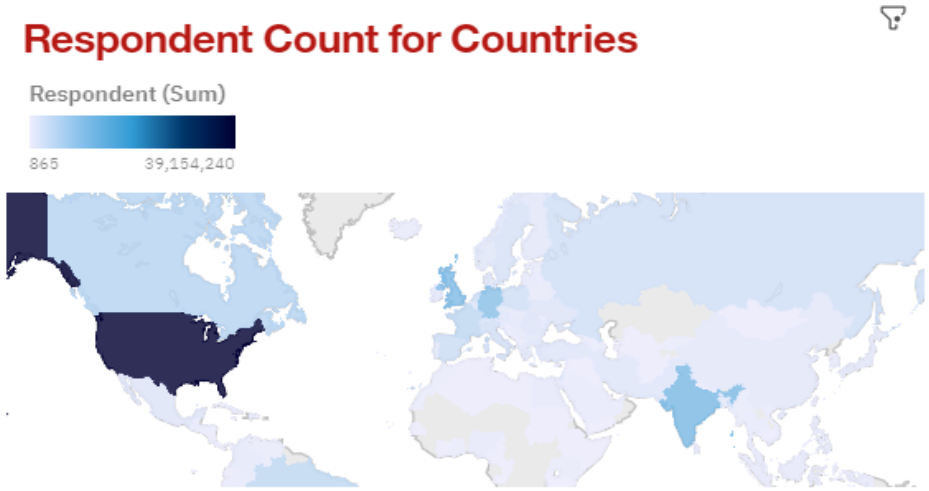
Platform Worked With

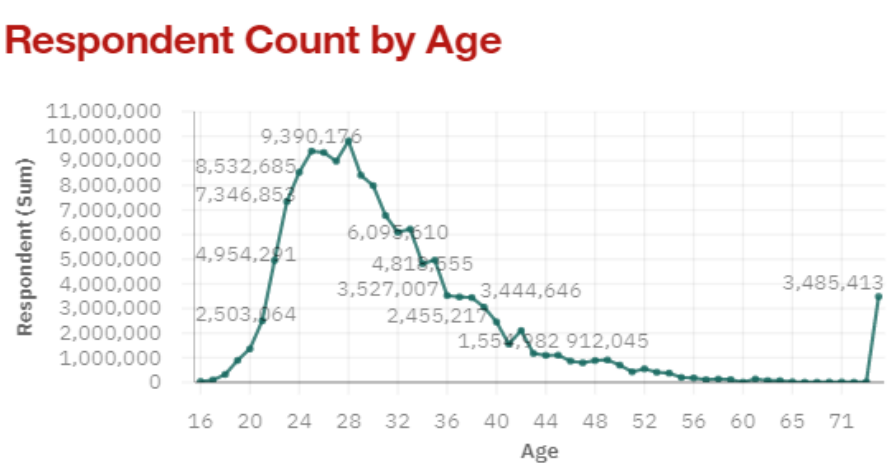
Top 10 Web Frame Worked With

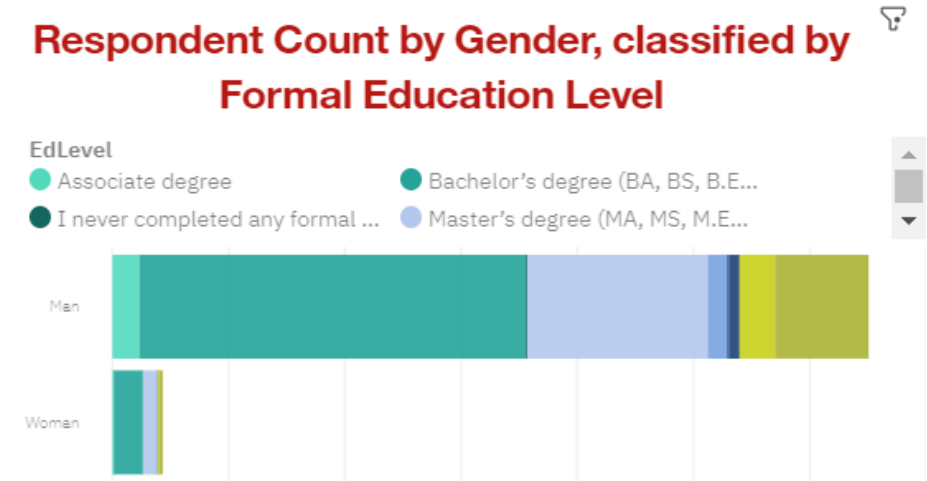


DASHBOARD TAB 3









IBM Developer

SKILLS NETWORK

DISCUSSION

- In this project, intention is to find more popular language, data base, respondents age, country, favorite plate form , web frame work and cotribution by the gender of respondent, education deails, average age, the most desired programming language and data base in coming years

OVERALL FINDINGS & IMPLICATIONS

Findings

- Java script is the most used and desired language
- MySql is the most used data base
- Postgrel sql in the data base which more people want to learn

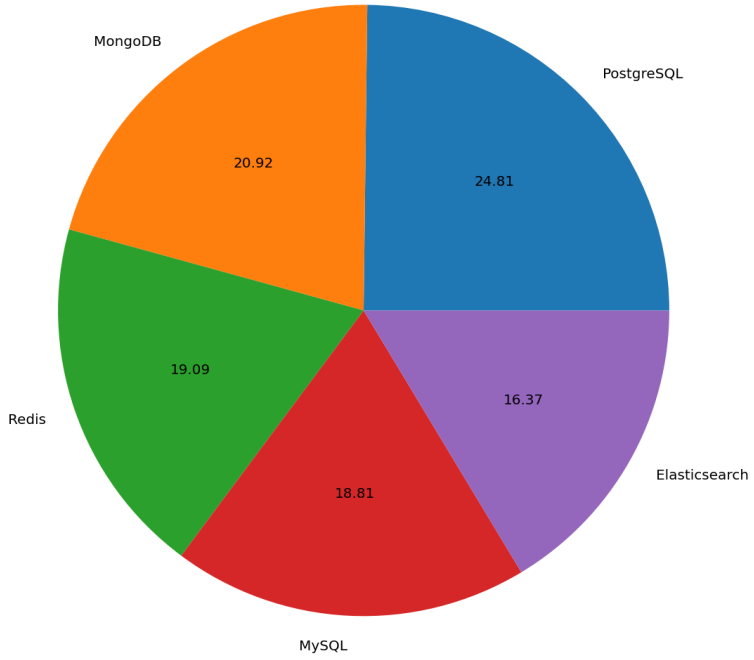
Implications

- Most of the Responders are Male
- Averge age of the most responders lies between 20 and 40
- United States are the major Cotributer to survey with 39,154,240 responders

CONCLUSION

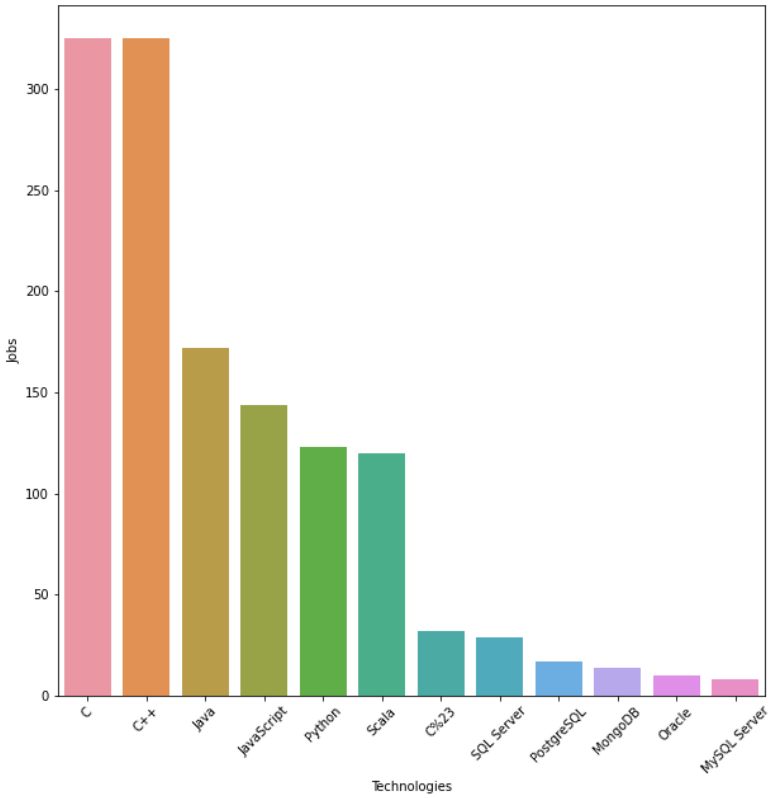
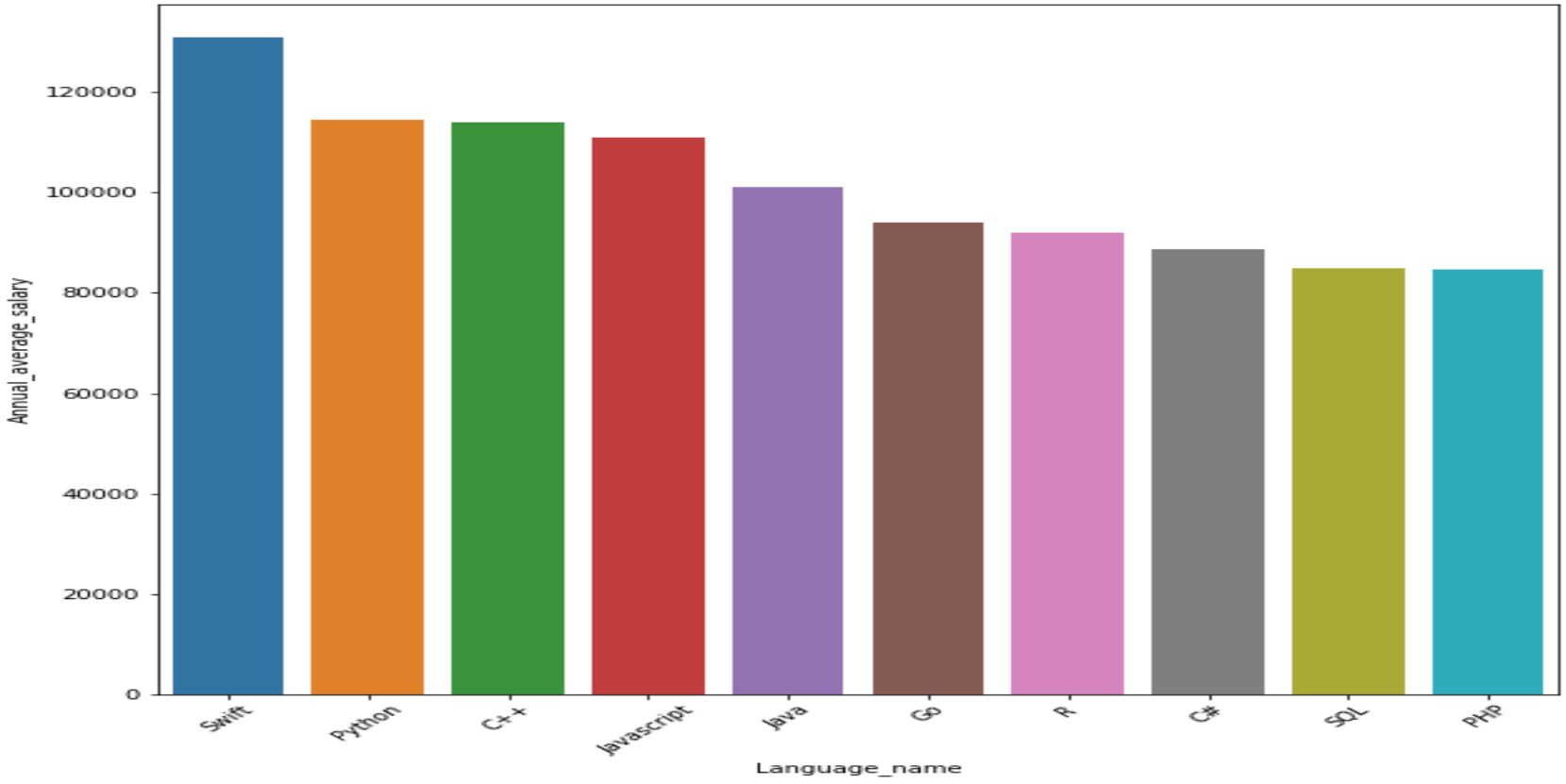
- Python become more popular in recent years, that's why more people want to learn python
- Contribution from females are less
- USA cotributes more respondents, because of the large number of It companies the have
- Linux is the most Sought after platform and people want to stick with it

APPENDIX



- Pie Chart for more desired Data bases.

GITHUB JOB POSTINGS



POPULAR LANGUAGES