

# Answer 4.1

**Write 2 to 3 sentences on why Python is so popular among data analysts**

Python is very important for doing data analysis. With Python, you can analyze your data efficiently and take advantage of a wide range of free libraries. These libraries, like Pandas and NumPy, make data manipulation a breeze. Plus, Python's readability and community support mean you're never alone if you run into a problem. You'll find that Python not only makes your data analysis tasks easier but also more enjoyable.

**After doing some research, name the 5 top companies in the world that use Python (either as a tool for software engineering or for analytics).**

## **Top Companies Using Python**

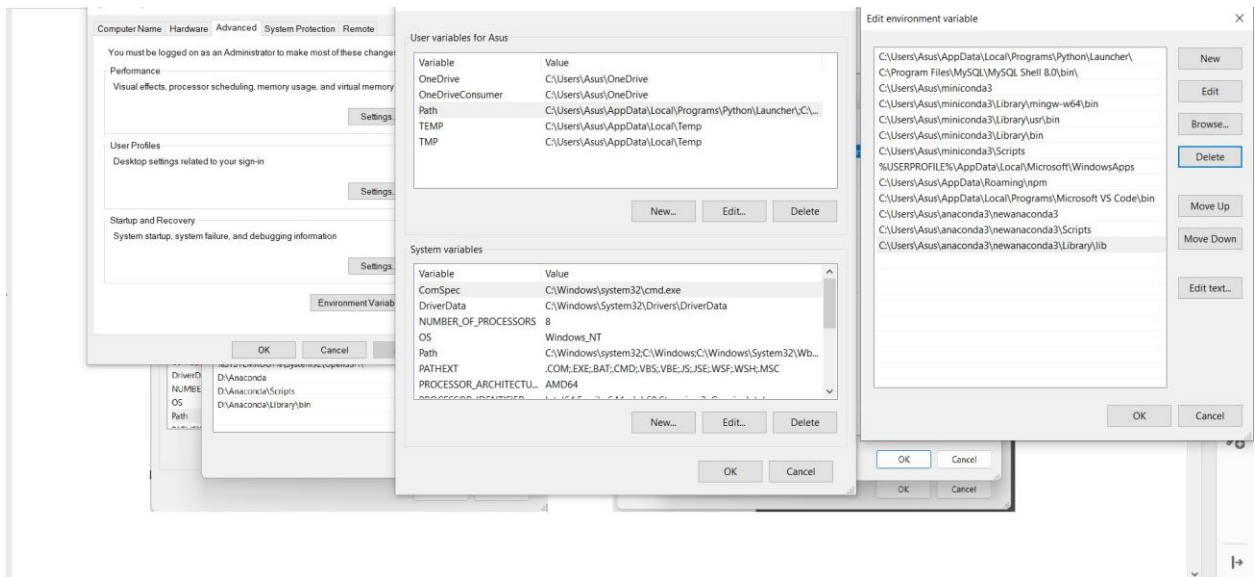
- 1. Google**
- 2. Netflix**
- 3. Spotify**
- 4. Instagram**
- 5. Facebook**

**Explain what tool you would use and why (Python, SQL, or Excel)**

- 1.** When you have a small facts set that desires some short tweaks, filtering, and charting, Excel or Google Sheets are your first-class pals. These tools are enormously user-pleasant and perfect for short obligations. You can without problems filter columns, perform fundamental evaluation, and create short charts with only some clicks. Plus, the visual interface makes it easy to look your data and insights at a look. It's like having a Swiss Army knife to your information—simple yet powerful for smaller obligations.
- 2.** If you need to tug statistics from a big database, SQL is the cross-to device. It's designed specifically for coping with and retrieving records from huge relational databases. With SQL, you could write queries to extract precisely the statistics you want, irrespective of how complex the requirements. Whether you are dealing with tens of millions of rows or complex joins, SQL handles it successfully. Think of it as your relied on navigator within the widespread ocean of records, guiding you immediately to the treasure.

3. For handling a hefty facts set with 15,000,000 rows and 350 columns, Python with the Pandas library is a lifesaver. Pandas is built to manage massive datasets efficaciously, allowing you to type, easy, and put together your information easily. Its powerful capabilities can handle complicated manipulations and modifications, making your data ready for advanced evaluation. Using Python, you could automate and streamline your workflow, saving time and decreasing errors. It's like having a supercharged toolkit that could tackle even the maximum daunting statistics demanding situations.

## Environment variables:



## Screenshot of browser upon launching Jupyter:

localhost:8888/tree?

jupyter

FileViewSettingsHelp

FilesRunning

Select items to perform actions on them.

NewUpload

Name	Last Modified	File Size
3D Objects	21 hours ago	
anaconda3	18 minutes ago	
Contacts	10 months ago	
Desktop	6 days ago	
Documents	19 days ago	
Downloads	44 minutes ago	
Favorites	10 months ago	
Links	10 months ago	
Microsoft	2 months ago	
miniconda3	29 days ago	
Music	yesterday	
OneDrive	23 minutes ago	
Pictures	19 days ago	
Saved Games	10 months ago	
ScreenPal	last month	
Searches	10 months ago	
Videos	yesterday	
database.py.ipynb	2 months ago	2 KB
Exploratory Data Analysis (EDA).ipynb	last month	1004 B