ECS 116
Databases for Non-Majors

Discussion 6
(5/16/24) |Spring '24

Today's Agenda

1. Quick Updates
2. Creating visualizations using json data.
3. How to use Github

Quick Updates

Programming Assignment 2

- Part 1 and 2 are online.
- Go to files->Prog-Assmt-2

File naming convention

- Focus on the file naming for submission
- File structure

Files

Today's Files:

1. Download the folder: *Files->Juypter Notebooks->DISC_6_FILES*
2. Extract the files and open on Anaconda
3. Completed notebook: *DISC-6-MAIN-v01.ipynb (There's no boilerplate code today)*

Tech Used:

1. Jupyter Notebook
2. VS Code and Git (Download if you don't have it)

Benchmarking and Comparative Analysis

An index offers an efficient way to quickly access the records from the database files stored on the disk drive. It optimizes the database querying speed by serving as an organized lookup table with pointers to the location of the requested data.

Database benchmarking is a well-defined, proven technique for comparing and analyzing how databases or database management systems (DBMS) perform.
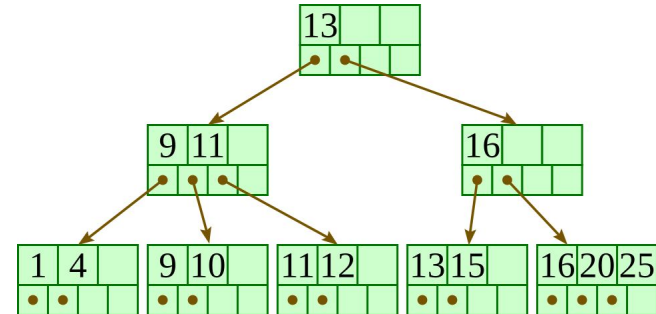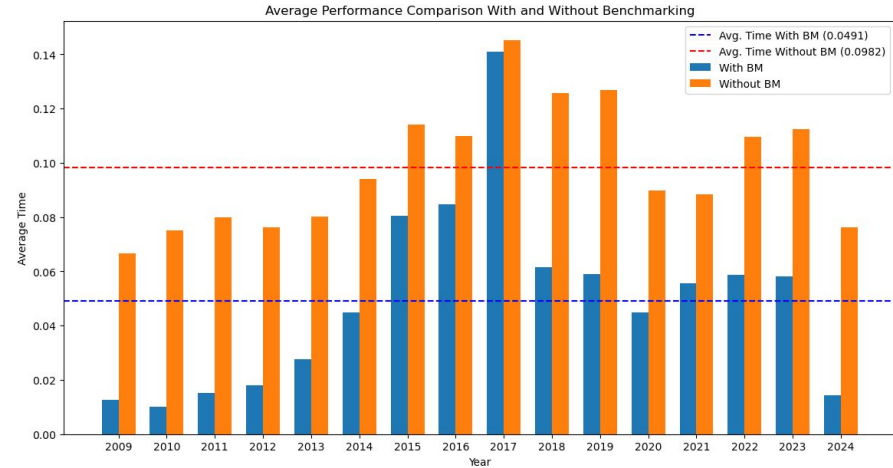
What is Github, VS Code and Git?

Visual Studio Code (VS Code) is a free, open-source source code editor that runs on Windows, macOS, and Linux.

GitHub is a web-based platform that allows developers to collaborate and manage version control.

Git is a DevOps tool used for source code management. It is a free and open-source version control system used to handle small to very large projects efficiently
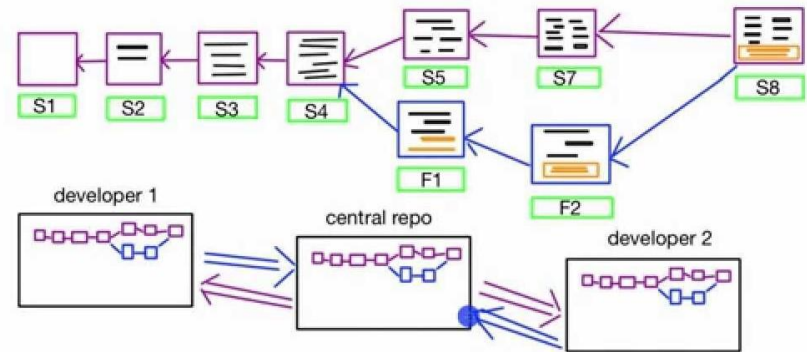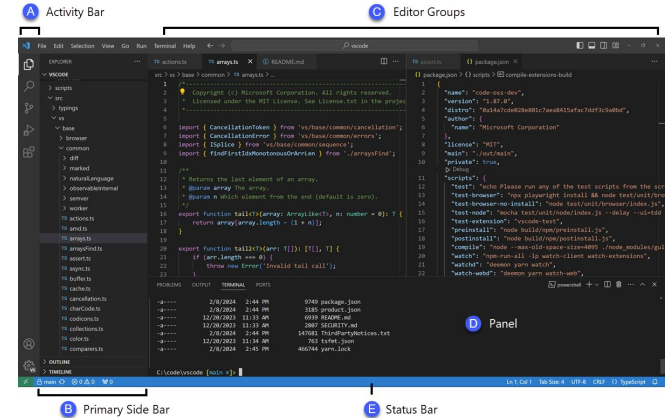
Why do we need this?

Today's Files:

1. Version Control
2. CICD
3. Having the latest version of the code on all remote stations

Some commands we would be using:

1. git init
2. git add .
3. git commit -m "Commit Message"
4. git push
5. git pull
6. git checkout -b branch-name

What did we learn today?

1. Quick Course Updates
2. Visualization in jupyter notebook
3. Using git and github

Thank You!

See you next Thursday!