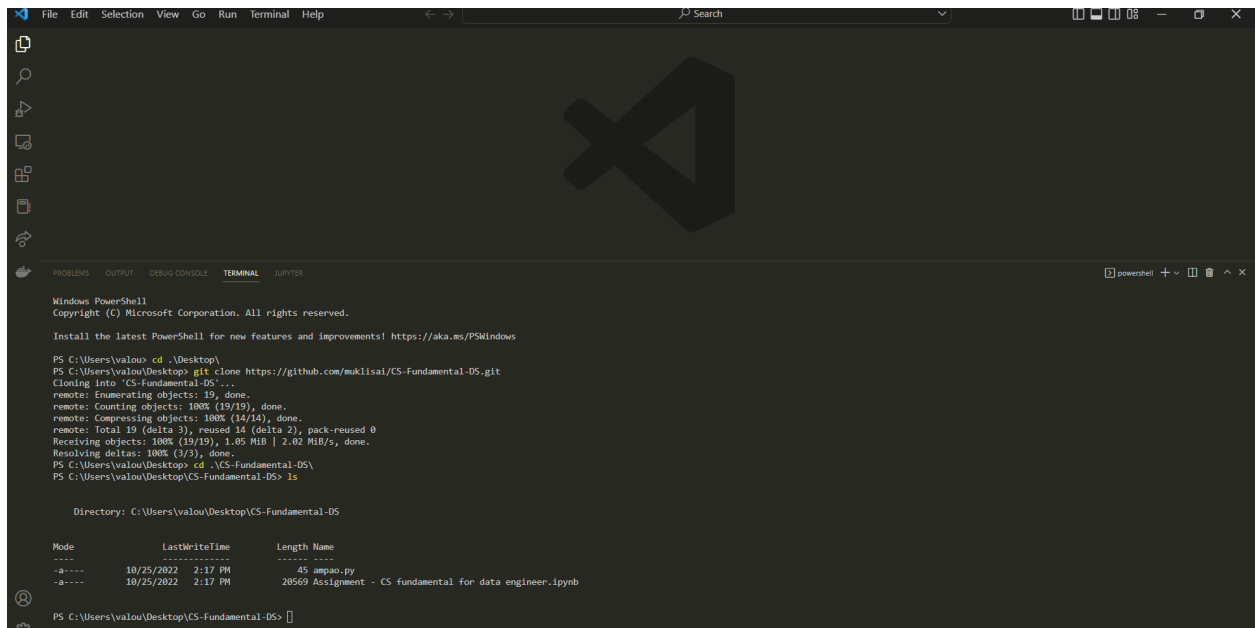


1. Clone repository yang telah disiapkan oleh Tim Narasio.
github clone HTTPS : <https://github.com/muklisai/CS-Fundamental-DS.git>
2. Buatlah **branch** baru dengan nama depan anda, tambahkan 'add/' sebelum nama anda.
 - Gunakan nama depan
3. Checkout branch baru Anda, kemudian masukkan **Push** salah satu program python kedalam repository yang telah disiapkan oleh panitia.
 - Gunakan salah satu program dari salah satu case study yang ada di pertemuan pertama (Misal : Gitlab).
 - "Push" hasil jawaban ke dalam branch yang telah anda buat
4. Berikan keterangan Commit Message dari perubahan yang Anda lakukan.
Contoh : "Soal telah dikerjakan"
 - Jika ada perbaikan soal maka "update soal nomor ..."
5. Buatlah sebuah dokumentasi dari setiap langkah / proses git yang Anda kerjakan.
6. Gunakan platform **Github** sebagai layanan cloud Version Control System Anda

Jawaban

1. Clone Repository



```
Windows PowerShell
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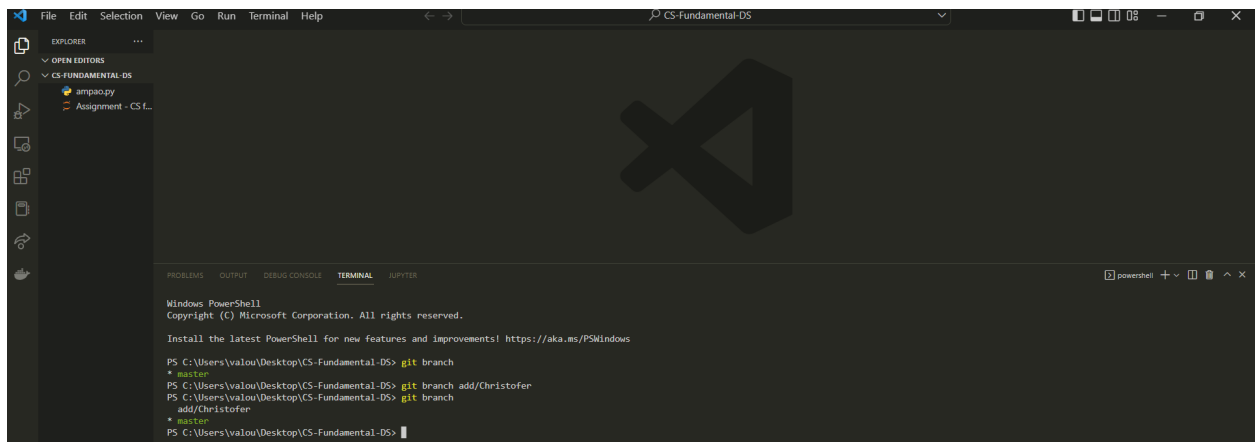
PS C:\Users\valou> cd .\Desktop\
PS C:\Users\valou\Desktop> git clone https://github.com/muklisai/CS-Fundamental-DS.git
Cloning into 'CS-Fundamental-DS'...
remote: Enumerating objects: 19, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 19 (delta 3), reused 14 (delta 2), pack-reused 0
Receiving objects: 100% (19/19), 1.05 MiB | 2.82 MiB/s, done.
Resolving deltas: 100% (3/3), done.
PS C:\Users\valou\Desktop> cd .\CS-Fundamental-DS\
PS C:\Users\valou\Desktop\CS-Fundamental-DS> ls

Directory: C:\Users\valou\Desktop\CS-Fundamental-DS

Mode                LastWriteTime         Length Name
----                -
-a----             10/25/2022   2:17 PM             45 ampao.py
-a----             10/25/2022   2:17 PM      28569 Assignment - CS fundamental for data engineer.ipynb

PS C:\Users\valou\Desktop\CS-Fundamental-DS>
```

2. Create branch “add/Christofer”

A screenshot of the Visual Studio Code editor interface. The Explorer sidebar on the left shows a project named 'CS-FUNDAMENTAL-DS' with files 'ampao.py' and 'Assignment - CS F...'. The main editor area is dark and contains a large, faint 'VS' logo. At the bottom, the TERMINAL panel is active, displaying PowerShell output. The terminal shows the execution of 'git branch' commands to create a new branch named 'add/Christofer' from the 'master' branch.

```
Windows PowerShell
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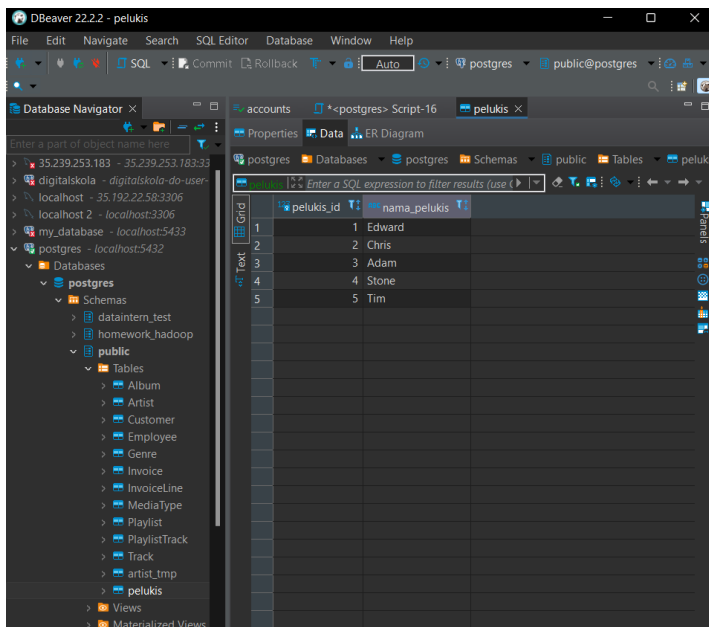
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git branch
* master
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git branch add/Christofer
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git branch
* master
add/Christofer
PS C:\Users\valou\Desktop\CS-Fundamental-DS> |
```

3. Checkout branch and buat file .py

```
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git checkout add/Christofer
Switched to branch 'add/Christofer'
PS C:\Users\valou\Desktop\CS-Fundamental-DS> code Assignment_CS_Narasio.py
PS C:\Users\valou\Desktop\CS-Fundamental-DS> python3 Assignment_CS_Narasio.py
Table created successfully
Data has been inserted
PostgreSQL connection is closed
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git status
On branch add/Christofer
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Assignment-result.csv
    Assignment_CS_Narasio.py
```

4. Membuat File .py untuk create table, insert values

```
Assignment_CS_Narasio.py X
Assignment_CS_Narasio.py > ...
1 import psycopg2
2 import pandas as pd
3
4 try:
5     # Connect to a database
6     conn = psycopg2.connect(host="localhost",
7                             database="postgres",
8                             password="Test123",
9                             user="postgres",
10                             port=5432,
11                             )
12
13     # Create a cursor
14     cursor = conn.cursor()
15
16     # === Create table pelukis ===
17     create_table_pelukis = ''' CREATE TABLE IF NOT EXISTS pelukis (
18                               pelukis_id SERIAL PRIMARY key,
19                               nama_pelukis VARCHAR(255));
20                               ...
21
22     # Execute command
23     cursor.execute(create_table_pelukis)
24     conn.commit()
25     print("Table created successfully")
26
27     # === Insert data into table pelukis ===
28     insert_query = ''' INSERT INTO pelukis (pelukis_id, nama_pelukis)
29                       VALUES(1, 'Edward'),
30                       (2, 'Chris'),
31                       (3, 'Adam'),
32                       (4, 'Stone'),
33                       ... (5, 'Tim');
34
35     cursor.execute(insert_query)
36     conn.commit()
37     print("Data has been inserted")
```



DBeaver 22.2.2 - pelukis

Database Navigator: postgres - localhost:5432

Tables: pelukis

pelukis_id	nama_pelukis
1	Edward
2	Chris
3	Adam
4	Stone
5	Tim

5. Push file ke github

```
Progress connection is closed
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git status
On branch add/Christofer
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Assignment-result.csv
    Assignment_CS_Narasio.py

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git add .
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git commit -m "Add Assignment work and result"
[add/Christofer 83ce9ed] Add Assignment work and result
2 files changed, 59 insertions(+)
 create mode 100644 Assignment-result.csv
 create mode 100644 Assignment_CS_Narasio.py
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git status
branch 'add/Christofer' set up to track 'origin/add/Christofer'.
PS C:\Users\valou\Desktop\CS-Fundamental-DS> git push --set-upstream origin add/Christofer
```