

Merge pandas



Trinity, Anjali, Sara, and Treena

Follow the Way of the Panda:

1. #FIRST, make sure that you have python on your machine... YOU NEED PYTHON INSTALLED:

#instructions for macos: <https://www.dataquest.io/blog/installing-python-on-mac/>

#instructions for windows: <https://www.dataquest.io/blog/installing-python-on-windows/>

#python download page: <https://www.python.org/downloads/>

2. #Change to working branch using:

```
git checkout <name of branch>
```

3. #Create a Virtual Environment Using(if you already have one in mind skip to 4):

```
python3 -m <name of your virtual environment> .venv
```

4. #activate the virtual environment

```
source .venv/bin/activate
```



#Go to next slide if the csvs you want to merge are already inside your current branch

Step 5. #open python shell in terminal using:

```
python3
```

```
python #depening on the version you have
```

Step 6. #import pandas:

```
Import pandas as pd
```

*to install(if you don't have it already):

```
install pandas
```

#if this does not work this might mean you are not in the shell refer back to step 5

#to check if pandas is installed/check version:

```
pd. version
```

Step 7. #have pandas read your csv file, make your changes, (add columns and so forth...)
and then print file in terminal:

```
df = pd.read_csv('<name of csv>')
```

```
#print csv
```

```
df
```

Save the altered csv data to a new CSV file

```
df.to_csv("<name of updated csv>.csv", index=False)
```

Step 8. #commit and push to team branch

```
git commit -m "my csv to my branch"
```

```
git push origin/<name of branch for the merge>
```

Step 8. #Change to the team branch with the csv files you want to combine

```
git checkout <name of branch for the merge>
```

Shy Panda (Working inside my shell)



Pandas like to be together (merge)

```
#in this branch open shell, again
python3
import pandas as pd

# Read the first CSV file
df1 = pd.read_csv("file1.csv")

# Read the second CSV file
df2 = pd.read_csv("file2.csv")

# Merge the two dataframes based on the common columns and rows(it's easiest to make
sure the csv files have the same column names ->(df.rename(columns={ 'Name': 'name',
'Food': 'food'}, inplace=True))

merged_df = pd.merge(df1, df2, on=["name", "food", "animal", "fact"], how="outer")

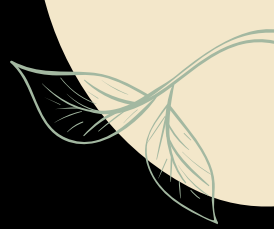
#take a look!
merged_df

# Save the merged data to a new CSV file
merged_df.to_csv("merged.csv", index=False)

#yay
```

Oh Yeah, Give Me Paw!

- First, we worked on individual branches, then pushed everything to 'Team1' branch, then we combined the csv's two at a time!
- Then we pushed the final csv file to the Main branch!



Watch out! Cowapanda! (Challenges):

- Repeated Cell values/Doubles and extra commas made it difficult to merge the first set of csv files initially which meant we needed an extra step to delete the doubles.
- We had a lot of issues pushing our personal branch to the Team 1 branch

