

PANDAS SANDBOX

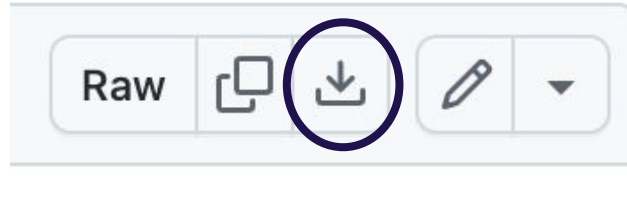


Wednesday, October 23rd
The Diamond, Workroom 2
16:30 - 18:30

- Google “ Sheffield University Data Science Society”

- > 2024-2025 > Sandbox Sessions > Pandas > Pandas' SandBox.ipynb

1- Download the file



2- Do one of the following:

- open it using VS code

Or

- open Google drive and upload the file to it

Open Pandas Guide And VS code Guide
from our website



[Pandas Guide](#)



[VS Code Guide](#)

<https://uosdss.wordpress.com>



Step1: Setup

**Install , import Library , Import
Data**

challenge 1

- Display the first five rows of the data frame
 - Get a summary of the data.
- How many shows are there in the data set?
- Get the year that most shows were released on

challenge 2:

- How often does each country appear in the dataset?
 - sort them descendingly
- Which country produces the most?

challenge 3:

- Sort the data by year in ascending order and inplace it.
- Filter the dataset to show only shows released in 2020.
- which year recorded the highest number of shows? What type of shows was mostly released in that year

challenge 4

- Create new 2 data frames, one for the data of movies only. One is for data on TV shows only.
 - delete the type column from both
- add a column 'has_director' to indicate if the show has a director or not

challenge 5

Group the data by "type" (Movie/TV Show) And
Count how many movies and TV shows were
added each year.

Challenge 6

Create a new column, `is_recent`, that flags as "Recent" if it contains releases from the last five years (relative to the current year).

challenge 7

Task: Use a pivot table to summarise and analyse the distribution of content ratings by year and type (Movie/TV Show).

Fill empty spaces with 0

challenge 8

Modify the "rating" column to group similar ratings together. For example, group all "PG-13", "TV-14", and "TV-PG" ratings under a new label "Teen". and do a pivot table again