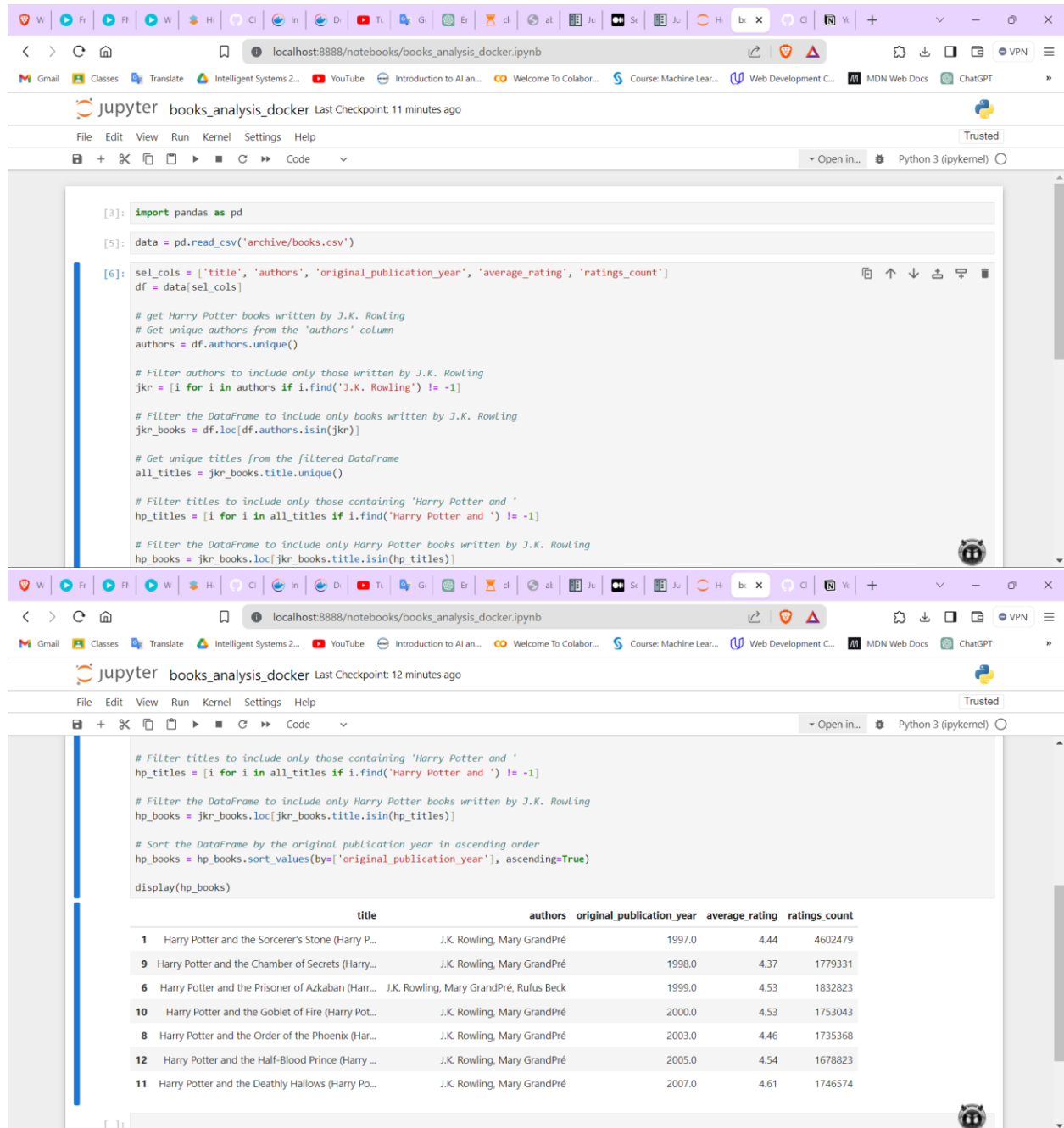


Cloud assignment 2



The image displays two screenshots of a Jupyter Notebook interface, showing the process of filtering and sorting a dataset of Harry Potter books.

Top Screenshot: The notebook is titled "books_analysis_docker" and shows the initial data loading and filtering steps. The code includes:

```
[3]: import pandas as pd

[5]: data = pd.read_csv('archive/books.csv')

[6]: sel_cols = ['title', 'authors', 'original_publication_year', 'average_rating', 'ratings_count']
    df = data[sel_cols]

    # get Harry Potter books written by J.K. Rowling
    # Get unique authors from the 'authors' column
    authors = df.authors.unique()

    # Filter authors to include only those written by J.K. Rowling
    jkr = [i for i in authors if i.find('J.K. Rowling') != -1]

    # Filter the DataFrame to include only books written by J.K. Rowling
    jkr_books = df.loc[df.authors.isin(jkr)]

    # Get unique titles from the filtered DataFrame
    all_titles = jkr_books.title.unique()

    # Filter titles to include only those containing 'Harry Potter and '
    hp_titles = [i for i in all_titles if i.find('Harry Potter and ') != -1]

    # Filter the DataFrame to include only Harry Potter books written by J.K. Rowling
    hp_books = jkr_books.loc[jkr_books.title.isin(hp_titles)]
```

Bottom Screenshot: The notebook shows the final filtering and sorting steps, followed by the output of the sorted DataFrame:

```
# Filter titles to include only those containing 'Harry Potter and '
hp_titles = [i for i in all_titles if i.find('Harry Potter and ') != -1]

# Filter the DataFrame to include only Harry Potter books written by J.K. Rowling
hp_books = jkr_books.loc[jkr_books.title.isin(hp_titles)]

# Sort the DataFrame by the original publication year in ascending order
hp_books = hp_books.sort_values(by=['original_publication_year'], ascending=True)

display(hp_books)
```

The output is a table with 6 columns: title, authors, original_publication_year, average_rating, and ratings_count. The table lists 11 Harry Potter books, sorted by their original publication year in ascending order.

	title	authors	original_publication_year	average_rating	ratings_count
1	Harry Potter and the Sorcerer's Stone (Harry P...	J.K. Rowling, Mary GrandPré	1997.0	4.44	4602479
9	Harry Potter and the Chamber of Secrets (Harry...	J.K. Rowling, Mary GrandPré	1998.0	4.37	1779331
6	Harry Potter and the Prisoner of Azkaban (Harr...	J.K. Rowling, Mary GrandPré, Rufus Beck	1999.0	4.53	1832823
10	Harry Potter and the Goblet of Fire (Harry Pot...	J.K. Rowling, Mary GrandPré	2000.0	4.53	1753043
8	Harry Potter and the Order of the Phoenix (Har...	J.K. Rowling, Mary GrandPré	2003.0	4.46	1735368
12	Harry Potter and the Half-Blood Prince (Harry ...	J.K. Rowling, Mary GrandPré	2005.0	4.54	1678823
11	Harry Potter and the Deathly Hallows (Harry Po...	J.K. Rowling, Mary GrandPré	2007.0	4.61	1746574