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Department: Intelligent System

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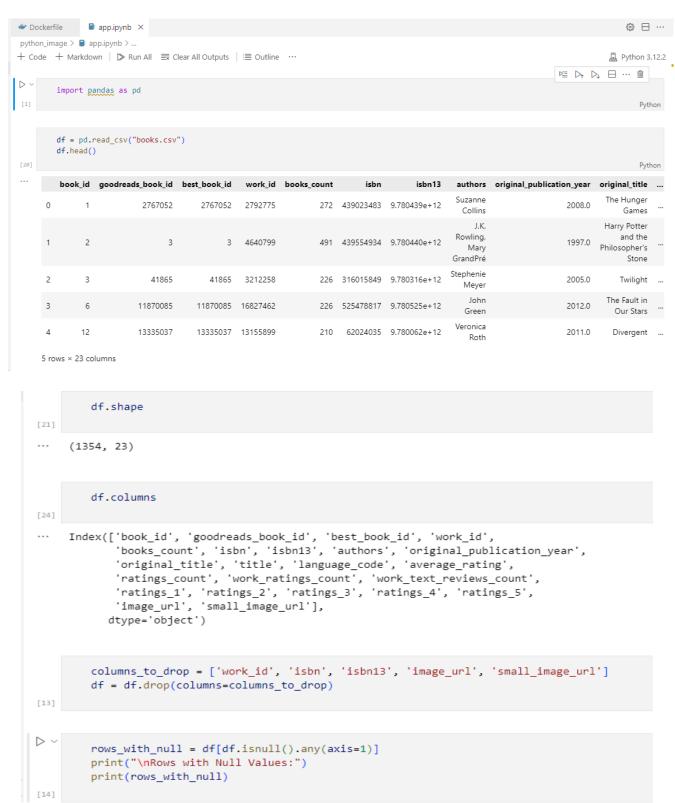
1) First I download the dataset from Kaggle

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| 5/3.jp, 5/418 5/418 5/518 5/518 5/5.jp, 5/726 5/5.jp, 5/726 5/158 5/6.jp, 5/158 5/6.jp, 5/158 5/ | 47415402 36103944 36103944 32855950 35827378 49927728 351827541 36714154 47417118 36103919 35302907 47417118 36103919 35302907 47417118 3600328 3601285 45127174 16735217 34063033 34063083 32778189 32778189 32778189 | pooks/11 pooks/12 pooks/12 pooks/13 poo | ets.com/in/sets.com/s | grais | //images. | thttp | 7 https://ima 8 https://ima 8 https://ima 4 https://ima 4 https://ima 5 https://ima 5 https://ima 6 https://ima 6 https://ima 6 https://ima 6 https://ima 6 https://ima 6 https://ima 7 https://ima 8 https://ima 8 https://ima 9 https://ima | 105 270631 118 301154 173 135543 177 131187 128 111430 128 111430 128 126667 177 173877 127 112480 126 105508 126 105508 126 115008 126 115008 127 1228 128 116149 128 135068 138 58281 138 39913 147 38003 147 38003 147 36996 107 46282 180 28875 180 2887 | 092 1451 024 1156 024 1156 024 1156 024 1156 025 698 0297 673 010 687 010 687 01129 509 060 618 0210 494 0345 548 0345 5 | 555 49 49 49 50 50 50 50 50 50 50 50 50 50 50 50 50 | 127936 101676 436802 92723 82870 48030 20413 110498 31577 42251 20210 22245 21516 55542 48294 35360 160660 64591 38558 44620 27612 62501 44232 43786 | 66715 75504 456191 456191 10492 6716 30144 9528 8253 6676 9363 7308 19309 18303 17892 102837 34122 4283 14286 1428 | 5254 5867 5009 5009 5009 5009 50274 5685 51172 1084 1942 7520 5186 5006 5006 5006 5006 5006 5006 5006 5006 5009 | 555 15525 557 15525 558 75868 559 14073 14 10102 99 14073 14 10102 99 8853 9627 18 9627 18 9627 18 2668 19 3417 19 3417 19 427 19 427 | \$553 494236 \$553 494236 \$579 480006 \$579 480006 \$563 221681 \$563 221681 \$563 221681 \$569 198807 \$560 187074 \$560 1 | 4.34 4786 4.44 4600 4.52 2344 4.24 1903 4.25 2344 4.24 1903 4.3 1831 4.03 1715 4.61 1746 4.53 1832 4.03 1715 4.61 1746 4.53 175 4.61 1746 4.53 175 4.61 1746 4.53 175 4.61 1746 4.53 175 175 185 185 185 185 185 185 185 18 | |

2) Second I made the jupyter notebook that contains the data cleaning and preprocessing of the data:



```
D ∨
         df.dropna(inplace=True)
                                                                                                                                       Python
         df.shape
 ... (1197, 18)
         duplicate_rows = df[df.duplicated()]
         print("Duplicate Rows:")
         print(duplicate_rows)
 [18]
                                                                                                                                       Python
 ··· Duplicate Rows:
     Empty DataFrame
     Columns: [book_id, goodreads_book_id, best_book_id, books_count, authors, original_publication_year, original_title, title, language_code, a
     Index: []
         harry_potter_df = df[df['title'].str.contains('Harry Potter')]
 ₩ 🗆 ..
 python_image > app.ipynb > ...
+ Code + Markdown | ▶ Run All 

Run All 

Clear All Outputs | 

Outline …
                                                                                                                                   Python 3.12
         harry_potter_df.shape
 [31]
                                                                                                                                          Python
 ... (11, 23)
         harry_potter_df.drop_duplicates(inplace=True)
 \cdots \quad \verb"<ipython-input-32-3be7da392e4d>:1: SettingWithCopyWarning:
     A value is trying to be set on a copy of a slice from a DataFrame
     See the caveats in the documentation: <a href="https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy">https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy</a>
       harry_potter_df.drop_duplicates(inplace=True)
         harry_potter_df.shape
                                                                                                                                          Python
 ... (11, 23)
         \cdots \quad \verb<ipython-input-41-086740a25b8f>:1: SettingWithCopyWarning:
      A value is trving to be set on a conv of a slice from a DataFrame
```

```
most selling books = harry potter df.groupby('title')['total ratings'].sum()
        most_selling_books
    title
                                                                                                                              204125
    Harry Potter Boxset (Harry Potter, #1-7)
    Harry Potter Collection (Harry Potter, #1-6)
                                                                                                                               26274
    Harry Potter Schoolbooks Box Set: Two Classic Books from the Library of Hogwarts School of Witchcraft and Wizardry
                                                                                                                               11732
    Harry Potter and the Chamber of Secrets (Harry Potter, #2)
                                                                                                                             1986199
    Harry Potter and the Deathly Hallows (Harry Potter, #7)
                                                                                                                             1847395
    Harry Potter and the Goblet of Fire (Harry Potter, #4)
                                                                                                                             1868642
    Harry Potter and the Half-Blood Prince (Harry Potter, #6)
                                                                                                                             1785676
    Harry Potter and the Order of the Phoenix (Harry Potter, #5)
                                                                                                                             1840548
    Harry Potter and the Prisoner of Azkaban (Harry Potter, #3)
                                                                                                                             1969375
                                                                                                                             4800065
    Harry Potter and the Sorcerer's Stone (Harry Potter, #1)
    The Magical Worlds of Harry Potter: A Treasury of Myths, Legends, and Fascinating Facts
                                                                                                                               15145
    Name: total_ratings, dtype: int64
        harry_potter_df['average_rating'] = harry_potter_df['average_rating'].astype(float)
[38]
    <ipython-input-38-39a35a381676>:1: SettingWithCopyWarning:
    A value is trying to be set on a copy of a slice from a DataFrame.
    Try using .loc[row_indexer,col_indexer] = value instead
    See the caveats in the documentation: https://pandas.nvdata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-conv
  Dockerfile
                  app.ipynb ×
                                                                                                                                          ₩ 🛭 ..
  python_image > app.ipynb > ...
  + Code + Markdown | ▶ Run All 

Clear All Outputs | 
Outline …
                                                                                                                                      Python 3.12.
  D ~
  [38]
      <ipython-input-38-39a35a381676>:1: SettingWithCopyWarning:
       A value is trying to be set on a copy of a slice from a DataFrame.
       Try using .loc[row_indexer,col_indexer] = value instead
       See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
         harry_potter_df['average_rating'] = harry_potter_df['average_rating'].astype(float)
           harry_potter_df['average_rating'] = harry_potter_df[['ratings_1', 'ratings_2', 'ratings_3', 'ratings_4', 'ratings_5']].mean(axis=1)
  ··· <ipython-input-45-7fb65d8fc19a>:1: SettingWithCopyWarning:
       A value is trying to be set on a copy of a slice from a DataFrame.
       Try using .loc[row_indexer,col_indexer] = value instead
       See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
         harry_potter_df['average_rating'] = harry_potter_df[['ratings_1', 'ratings_2', 'ratings_3', 'ratings_4', 'ratings_5']].mean(axis=1)
           average_rating = harry_potter_df['average_rating'].mean()
           average_rating
  ... 295912.29090909090
```

3) After that I made a docker file that connects to python and jupyter notebook

```
python_image > Dockerfile X

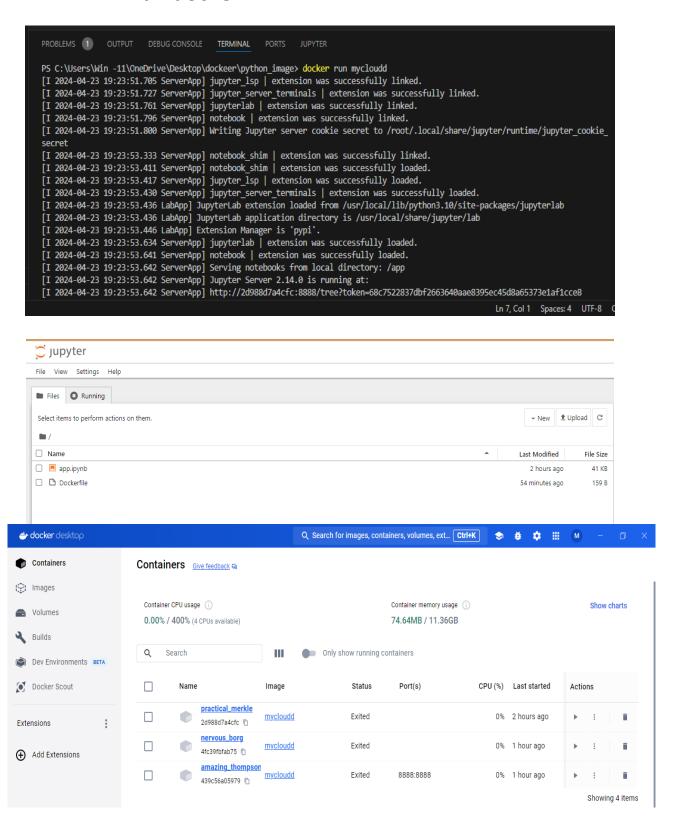
python_image > Dockerfile > ...

1   FROM python:3.10
2   WORKDIR /app
3   COPY . /app
4   RUN pip install jupyter
5   EXPOSE 8888
6   CMD ["jupyter", "notebook", "--ip=0.0.0.0", "--port=8888", "--allow-root"]
7
```

• Build docker file that have the name mucloudd

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS JUPYTER
PS C:\Users\Win -11\OneDrive\Desktop\dockeer\python_image> docker build -t mycloudd .
[+] Building 14.8s (5/9)
                                                                                                               docker:default
=> => transferring dockerfile: 198B
=> [internal] load metadata for docker.io/library/python:3.10
 => [internal] load .dockerignore
                                                                                                                         0.05
 => [1/4] FROM docker.io/library/python:3.10@sha256:f68383667ffe53e85cc0fe4f5a604d303dfa364f238ac37a4675980a2b93b1c5
                                                                                                                        12.5s
 => => sha256:cf5cac6010f4caa5446516c18f48369215df2e912a12ff314ceb9a1d95a5fd60 2.01kB / 2.01kB
 => sha256:9190bf2a489b4146b995c56f230856134d7a99fb232f66f44a13be9fb580362b 11.53MB / 17.15MB
                                                                                                                        12.45
 => sha256:af55a6c6f99c4e6ecd2daccdd636f3a02b9cd48f9d30ad65830c91bcf012b3d5 245B / 245B
                                                                                                                         0.3s
 => => sha256:188ef716c498535fed4b6325683ae0549788532ab60ddd5fca4a6ca7d021ce8b 3.08MB / 3.08MB
 => => transferring context: 42.27kB
                                                                                                                         0.05
```

Run docker



• Find docker images

```
PS C:\Users\Win -11\OneDrive\Desktop\dockeer\python_image> docker images
REPOSITORY TAG
                                 CREATED
                                                   SIZE
                    IMAGE ID
mycloudd
           latest 8de7ee8ea9d7 About an hour ago 1.23GB
            latest a05d274b820d 4 hours ago
myfirstapp
                                                   1.02GB
ubuntu
          latest 7af9ba4f0a47 13 days ago
                                                   77.9MB
hello-world latest d2c94e258dcb 11 months ago
                                                   13.3kB
PS C:\Users\Win -11\OneDrive\Desktop\dockeer\python_image>
```