```python
     given title a customer has purchased
 4   import numpy as np
 5   import pandas as pd
 6   from sklearn.metrics.pairwise import cosine_similarity
 7
 8   r_cols = ['user_id', 'book_id', 'rating']
 9   ratings = pd.read_csv('Ratings.csv')
10   m_cols = ['book_id', 'title']
11   books = pd.read_csv('Books.csv')
12   ratings = pd.merge(books, ratings)
13   ratings.head()
14   bookRatings =ratings.pivot_table(index=['User_ID'],columns=['title'],values='Book-Rating')
15   bookRatings.head()
16   summerlandRatings = bookRatings['Summerland']
17   summerlandRatings.head()
18   similarBooks = bookRatings.corrwith(summerlandRatings)
19   similarBooks = similarBooks.dropna()
20   bookStats = ratings.groupby('title').agg({'rating': [np.size, np.mean]})
21   bookStats.head()
22   popularBooks = bookStats['rating']['size'] >= 100
23   bookStats[popularBooks].sort_values([('rating', 'mean')], ascending=False)[:15]
24   df = bookStats[popularBooks].join(pd.DataFrame(similarBooks, columns=['similarity']))
25   df.head()
26   df.sort_values(['similarity'], ascending=False)[:15]
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   ⟩ Python

```
    table = __internal_pivot_table(
            ^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/pandas/core/reshape/pivot.py", line 165, in __internal_piv
    grouped = data.groupby(keys, observed=observed, sort=sort)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/pandas/core/frame.py", line 8389, in groupby
    return DataFrameGroupBy(
           ^^^^^^^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/pandas/core/groupby/groupby.py", line 959, in __init__
    grouper, exclusions, obj = get_grouper(
                               ^^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/pandas/core/groupby/grouper.py", line 888, in get_grouper
    raise KeyError(gpr)
KeyError: 'User_ID'
```

Output wont work