Analysis on the dataset

Bestselling book: Harry Potter and the Sorcerer's Stone (Harry Potter, #1)
Total sales of bestselling book: 4800065

```
[59]:  # Filter the DataFrame to include only the Harry Potter series
       harry_potter_books = df[df['title'].str.contains('Harry Potter', case=False)]

       # Calculate total sales for each book in the Harry Potter series
       sales_per_book = harry_potter_books.groupby('title')['work_ratings_count'].sum()

       # Identify the bestselling book
       bestselling_book = sales_per_book.idxmax()
       total_sales_bestselling = sales_per_book.max()

       print("Sales per book in the Harry Potter series:")
       print(sales_per_book)
       print("Bestselling book:", bestselling_book)
       print("Total sales of bestselling book:", total_sales_bestselling)
```

```
Sales per book in the Harry Potter series:
title
Harry Potter Boxset (Harry Potter, #1-7)                                                                           204125
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)                                                        1906199
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
Harry Potter and the Sorcerer's Stone (Harry Potter, #1)                                                          4800065
The Magical Worlds of Harry Potter: A Treasury of Myths, Legends, and Fascinating Facts                             15145
Name: work_ratings_count, dtype: int64
Bestselling book: Harry Potter and the Sorcerer's Stone (Harry Potter, #1)
Total sales of bestselling book: 4800065
```

Average rating of the Harry Potter series: 1397060.4545454546

```
[60]:  # Calculate average rating for each book in the Harry Potter series
       average_rating_per_book = harry_potter_books.groupby('title')['ratings_count'].mean()

       # Calculate average rating for the Harry Potter series as a whole
       average_rating_series = harry_potter_books['ratings_count'].mean()

       print("Average rating per book in the Harry Potter series:")
       print(average_rating_per_book)
       print("Average rating of the Harry Potter series:", average_rating_series)
```

```
Average rating per book in the Harry Potter series:
title
Harry Potter Boxset (Harry Potter, #1-7)                                                                           190050.0
Harry Potter Collection (Harry Potter, #1-6)                                                                         24618.0
Harry Potter Schoolbooks Box Set: Two Classic Books from the Library of Hogwarts School of Witchcraft and Wizardry   10736.0
Harry Potter and the Chamber of Secrets (Harry Potter, #2)                                                         1779331.0
Harry Potter and the Deathly Hallows (Harry Potter, #7)                                                            1746574.0
Harry Potter and the Goblet of Fire (Harry Potter, #4)                                                             1753043.0
Harry Potter and the Half-Blood Prince (Harry Potter, #6)                                                          1678823.0
Harry Potter and the Order of the Phoenix (Harry Potter, #5)                                                       1735368.0
Harry Potter and the Prisoner of Azkaban (Harry Potter, #3)                                                        1832823.0
Harry Potter and the Sorcerer's Stone (Harry Potter, #1)                                                           4602479.0
The Magical Worlds of Harry Potter: A Treasury of Myths, Legends, and Fascinating Facts                              13820.0
Name: ratings_count, dtype: float64
Average rating of the Harry Potter series: 1397060.4545454546
```

Total rating of Each Book in the Harry Potter Series
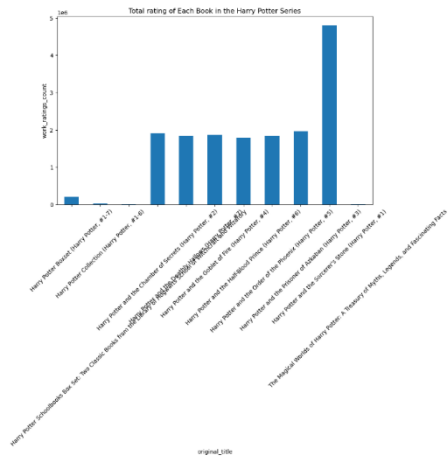
```
# total rating for each book in the Harry Potter series
sales_per_book.plot(kind='bar', figsize=(10, 6))
plt.xlabel('original_title')
plt.ylabel('work_ratings_count')
plt.title('Total rating of Each Book in the Harry Potter Series')
plt.xticks(rotation=45)
plt.show()
```

Best selling book :Harry Potter and the Sorcerer's Stone (Harry Potter, #1)

Average rating of the Harry Potter books: 4.4910000000000005