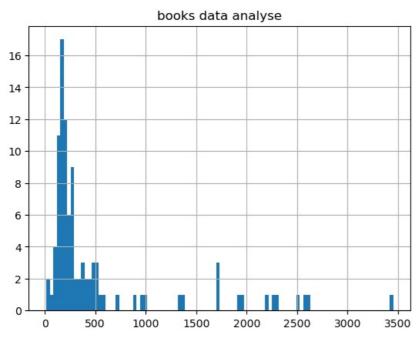
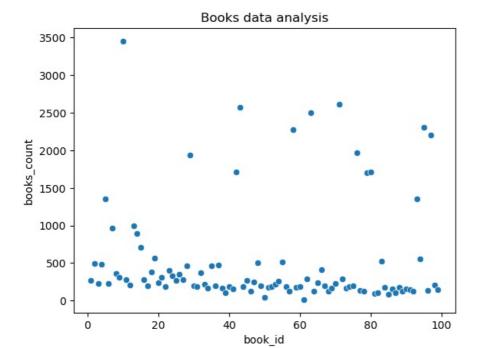
```
In [1]:
        import pandas as pd
        import seaborn as sns
        import matplotlib.pyplot as plt
        data=pd.read_csv('books.csv')
In [2]:
        print(data.describe())
                           goodreads book id
                  book id
                                              best book id
                                                                  work id
                                                                            books count
               99.000000
                                                             9.900000e+01
        count
                                9.900000e+01
                                               9.900000e+01
                                                                              99.000000
                50.000000
                                1.653979e+06
                                               2.020180e+06
                                                             4.388198e+06
                                                                             532.383838
        mean
        std
                28.722813
                                4.030956e+06
                                               4.681734e+06
                                                             6.465936e+06
                                                                             700.853630
        min
                1.000000
                                1.000000e+00
                                               1.000000e+00
                                                             5.397000e+03
                                                                              14.000000
        25%
                25.500000
                                3.925000e+03
                                               4.297500e+03
                                                             1.681676e+06
                                                                             172.500000
                50.000000
        50%
                                1.813500e+04
                                               1.906300e+04
                                                             3.036731e+06
                                                                             226.000000
        75%
                74.500000
                                1.927180e+05
                                              3.135880e+05
                                                             3.357144e+06
                                                                             480.500000
               99.000000
        max
                                2.255727e+07
                                              2.255727e+07
                                                             4.133543e+07
                                                                            3455.000000
                      isbn13
                                                          average rating
                              original_publication_year
                                                                           ratings count
               9.900000e+01
                                                               99.000000
        count
                                               99.000000
                                                                            9.900000e+01
        mean
                9.780473e+12
                                             1943.171717
                                                                4.055051
                                                                            1.263703e+06
        std
                3.961477e+08
                                              277.288365
                                                                0.245059
                                                                            7.832598e+05
               9.780007e+12
                                                                3.510000
                                                                            3.872900e+05
                                             -720.000000
        min
        25%
               9.780150e+12
                                             1952.500000
                                                                3.870000
                                                                            7.388255e+05
        50%
                9.780385e+12
                                             1997.000000
                                                                4.060000
                                                                            1.053403e+06
        75%
               9.780553e+12
                                             2005.000000
                                                                4.245000
                                                                            1.653671e+06
                                             2015.000000
                                                                4.610000
        max
               9.781612e+12
                                                                            4.780653e+06
                work ratings count
                                    work text reviews count
                                                                   ratings 1
                      9.900000e+01
                                                   99.000000
                                                                   99.000000
        count
        mean
                      1.361989e+06
                                                39012.222222
                                                               39065.565657
                      7.978995e+05
                                                28693.522227
                                                               50901.940472
        std
                      5.493010e+05
                                                 4239.000000
                                                                4623.000000
        min
                      8.051315e+05
                                                               15337.500000
        25%
                                                17789.500000
        50%
                      1.125231e+06
                                                31212.000000
                                                               27340.000000
        75%
                      1.729282e+06
                                                48035.000000
                                                               45624.000000
                      4.942365e+06
                                               155254.000000
                                                              456191.000000
        max
                    ratings_2
                                   ratings_3
                                                  ratings_4
                                                                ratings 5
                    99.000000
                                   99.000000
                                               9.900000e+01
                                                             9.900000e+01
        count
                70538.828283
                               228209.626263
                                               4.204259e+05
                                                             6.037495e+05
        mean
        std
                55694.613546
                               124117.176087
                                               2.231151e+05
                                                             4.628464e+05
        min
                15781.000000
                                76071.000000
                                               1.403040e+05
                                                             1.760720e+05
        25%
                35029.500000
                               138675.500000
                                               2.635695e+05
                                                             3.130130e+05
        50%
                58323.000000
                               200154.000000
                                               3.475400e+05
                                                             4.628290e+05
        75%
                86238.000000
                               277074.000000
                                               5.184895e+05
                                                             7.283425e+05
                436802.000000
                               793319.000000
                                              1.481305e+06
                                                             3.011543e+06
        max
        data.head(10)
In [9]:
        data['books count'].hist(bins=100)
        plt.title("books data analyse")
        plt.show()
```



```
In [4]: sns.scatterplot(x='book_id', y='books_count', data=data)
plt.title('Books data analysis')
plt.show()
```



In [14]:
 sns.heatmap(data.corr(), annot=False, cmap='coolwarm')
 plt.title('Correlation Matrix')
 plt.show()

C:\Users\DELL\AppData\Local\Temp\ipykernel_11536\1628057676.py:1: FutureWarning: The default value of numeric_o
nly in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns o
r specify the value of numeric_only to silence this warning.
sns.heatmap(data.corr(), annot=False, cmap='coolwarm')

