***Case -Study***

BookRent is the largest online and offline rental chain in India. The company charges a fixed fee per month plus rental per book. So the company makes more money when users rent more books.

Fields and theirs details

BX-Books.tsv

|  |  |
| --- | --- |
| Field Name | Description |
| ISBN | International standard Book Number, a unique id for book |
| TITLE | Title of the book |
| AUTHOR | Book author's name |
| YEAR\_OF\_PUBLICATION | Book publishing year |
| PUBLISHER | Name of the publishing house |
| IMAGE\_URL\_S | Short url for book image |
| IMAGE\_URL\_M | Medium url for book image |
| IMAGE\_URL\_L | Long url for book image |

Bx.-books-rating.tsv

|  |  |
| --- | --- |
| Field Name | Description |
| Serial No | Unique id of the user |
| ISBN | International standard Book Number, a unique id for book |
| Rating | Rating given by user |

Bx-users.tsv

|  |  |
| --- | --- |
| Field Name | Description |
| Serial\_No | Unique id of the user |
| Address | Users Address |
| Area\_code | Users area code |

Create spark programs and Solve the following:

- Write a program to display the ISBN, area code and rating of books

- Write a program to display the average ratings of books per publisher.

- Write a Program to display the total number of books published every year.

- Write a program to display top five most popular books

Note :

Incase, the processing takes time. You can take 10k of data.