Chit No: 15 SPPU DBMS LAB Create a collection Book in MongoDB (Title, Description, Author, Publisher, URL, no\_of\_likes) 1. Add documents in collection. 2. Display all documents in collection. 3. Display a list stating how many books are written by each author. 4. Calculate the sum of no\_of\_likes from all documents in the collection for each Author. 5. Calculates the average of no\_of\_likes from all documents in the collection for each Author

db.createCollection('Books');

db.Books.insertMany([

{

'Title': "Book One",

'Description': "An exciting adventure.",

'Author': "Author A",

'Publisher': "Publisher X",

'URL': "/example.com/book1",

'no\_of\_likes': 120

},

{

'Title': "Book Two",

'Description': "A thrilling mystery.",

'Author': "Author B",

'Publisher': "Publisher Y",

'URL': "/example.com/book2",

'no\_of\_likes': 85

},

{

'Title': "Book Three",

'Description': "A fascinating science fiction.",

'Author': "Author A",

'Publisher': "Publisher X",

'URL': "/example.com/book3",

'no\_of\_likes': 150

},

{

'Title': "Book Four",

'Description': "A captivating romance.",

'Author': "Author C",

'Publisher': "Publisher Z",

'URL': "/example.com/book4",

'no\_of\_likes': 95

},

{

'Title': "Book Five",

'Description': "A compelling drama.",

'Author': "Author B",

'Publisher': "Publisher Y",

'URL': "/example.com/book5",

'no\_of\_likes': 100

}

]);

db.Books.find().pretty();

db.Books.aggregate({$group: {\_id: "$Author",'book\_count': { $sum: 1 }}});

db.Books.aggregate({$group: {\_id: "$Author",'total\_likes': { $sum: "$no\_of\_likes" }}});

db.Books.aggregate({$group: {\_id: "$Author",'average\_likes': { $avg: "$no\_of\_likes" }}});