



# BABU MADHAV INSTITUTE OF INFORMATION TECHNOLOGY, UTU

## Integrated M.Sc.(IT)

### Semester-IX

### Essentials of Big Data Analytics

#### Practical List: 03

#### Problem Definition

By using database named “bmiit2021” in MongoDB, create the collection called “Books” containing documents with some or all of the following fields: bookId, bookTitle, authors (containing fields: authorName), publicationYear, publisher, Orders (containing fields: OrderedId, orderDate, customerName, price, quantityOrdered, discount).

Note that a book may have one or more authors and orders. Also, the same Ordered can be present in one or more books. Perform the following operations on the database (either in the console or using any programming language):

1. Insert records for 10 books from 5 authors, and at least 20 orders in total.
2. Update the title of a particular book.
3. Display all the books having less than 3 authors and sort by book name.
4. Display the number of books from each publisher.
5. Use Map Reduce function to display the total quantity of books ordered for each date.
6. Use Map Reduce function to display the discount offered to a particular customer.