

NoSQL Assignment

Enrollment No: MSCIT23B18

Roll No: 18

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# SET 1

## Create a collection named "book" and insert 5 records with following document schema:

##### db.createCollection(“Book”);

## 1. Book\_code, Book\_name, Author: more than 1 author is possible, Publisher\_name, Year\_of\_publication, type\_of\_book: [textbook, reference, periodicals], Cost

### Inserting Records

Enterprise **NoSQL\_Collage**> db.Books.insertMany([

  {

    "Book\_Code": "1",

    "Book\_name": "Head First Design Patterns",

    "Author": ["Eric Freeman","Elisabeth Robson","Bert bates","Kathy Sierra"],

    "Publisher\_name": "O'Reilly Media",

    "Year\_Of\_Publication": "2020",

    "type\_of\_book": "Textbook",

    "Cost": 2878

  },

  {

    "Book\_Code": "2",

    "Book\_name": "Data Structures And Algorithms in Python,3rd Edition",

    "Author": ["Michael T.Goodrich","Roberto Tamassia","Michael H.Goldwasser"],

    "Publisher\_name": "Peasron",

    "Year\_Of\_Publication": "2020",

    "type\_of\_book": "Textbook",

    "Cost": 350

  },

  {

    "Book\_Code": "3",

    "Book\_name": "The Elements of Style",

    "Author": ["William Strunk Jr.","E.B. White"],

    "Publisher\_name": "Allyn & Bacon",

    "Year\_Of\_Publication": "2018",

    "type\_of\_book": "Reference",

    "Cost": 1072

  },

  {

    "Book\_Code": "4",

    "Book\_name": "Cracking the Coding Interview: 189 Programming Questions and Solutions",

    "Author": ["Gayle Laakmann McDowell"],

    "Publisher\_name": "CareerCup",

    "Year\_Of\_Publication": "2020",

    "type\_of\_book": "Reference",

    "Cost": 2313

  },

  {

    "Book\_Code": "5",

    "Book\_name": "The Economist: The World in 2023",

    "Author": ["The Economist"],

    "Publisher\_name": "The Economist",

    "Year\_Of\_Publication": "2022",

    "type\_of\_book": "Periodicals",

    "Cost": 879

  },

  {

    "Book\_Code": "6",

    "Book\_name": "Scientific American: 50th Anniversary Edition",

    "Author": ["Scientific American"],

    "Publisher\_name": "Scientific American",

    "Year\_Of\_Publication": "2022",

    "type\_of\_book": "Periodicals",

    "cost": 1623

  }

]);

{

acknowledged: true,

insertedIds: {

'0': ObjectId("64e459bce552bdf2a9761023"),

'1': ObjectId("64e459bce552bdf2a9761024"),

'2': ObjectId("64e459bce552bdf2a9761025"),

'3': ObjectId("64e459bce552bdf2a9761026"),

'4': ObjectId("64e459bce552bdf2a9761027"),

'5': ObjectId("64e459bce552bdf2a9761028")

}

}

## Based on the above collection, write a mongodb query for the following:

### Display all the documents of the collection Book with only Book\_code, Book\_name, and author and cost fields.

Enterprise NoSQL\_Collage> db.Books.find({},

{ "Book\_Code": 1, "Book\_name": 1, "Author": 1, "Cost": 1, \_id: 0 });

[

  {

    Book\_Code: '1',

    Book\_name: 'Head First Design Patterns',

    Author: [

      'Eric Freeman',

      'Elisabeth Robson',

      'Bert bates',

      'Kathy Sierra'

    ],

    Cost: 2878

  },

  {

    Book\_Code: '2',

    Book\_name: 'Data Structures And Algorithms in Python,3rd Edition',

    Author: [

      'Michael T.Goodrich',

      'Roberto Tamassia',

      'Michael H.Goldwasser'

    ],

    Cost: 240

  },

  {

    Book\_Code: '3',

    Book\_name: 'The Elements of Style',

    Author: [ 'William Strunk Jr.', 'E.B. White' ],

    Cost: 1072

  },

  {

    Book\_Code: '4',

    Book\_name: 'Cracking the Coding Interview: 189 Programming Questions and Solutions',

    Author: [ 'Gayle Laakmann McDowell' ],

    Cost: 2313

  },

  {

    Book\_Code: '5',

    Book\_name: 'The Economist: The World in 2023',

    Author: [ 'The Economist' ],

    Cost: 879

  },

  {

    Book\_Code: '6',

    Book\_name: 'Scientific American: 50th Anniversary Edition',

    Author: [ 'Scientific American' ],

    Cost: 1623

  }

]

### Update Book collection whose cost is greater than 300, update to 240 Indian rupees of Pearson publication.

Enterprise **NoSQL\_Collage**>  db.Books.updateMany({

    $and: [{ Publisher\_name: { $eq: "Peasron" } }, { Cost: { $gt: 300 } }]

}, {

    $set: { Cost: 240 }

});

{

  acknowledged: true,

  insertedId: null,

  matchedCount: 1,

  modifiedCount: 1,

  upsertedCount: 0

}