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7. Problem Statement 7 (Map Reduce)
Create Book Collection with (Title, Author_name, Borrowed_status) as fields. Write
Map Reduce Functions for
following requirements.
1. Display Author wise list of books.
Display Author wise list of books having Borrowed status as "True".
Display Author wise list of books having price greater than 300.
1. creating database
test> use sahadevdb
switched to db sahadevdb
sahadevdb> db.createCollection("books")
{ ok: 1 }
sahadevdb> db.books.insertMany([
                                 "Author_name": "F. Scott Fitzgerald",
   { "Title": "The Great Gatsby",
"Borrowed_status": "True", "Price": 350 },
   { "Title": "To Kill a Mockingbird", "Author_name": "Harper Lee",
"Borrowed_status": "False", "Price": 200 },
   { "Title": "1984", "Author_name": "George Orwell", "Borrowed_status": "True",
"Price": 400 },
   { "Title": "Moby Dick", "Author_name": "Herman Melville", "Borrowed_st
atus": "False", "Price": 250 },
{ "Title": "Brave New World", "Author_name": "Aldous Huxley", "Borrowed_status":
"True", "Price": 320 }
]);
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('672ef44d53b37311a70d8190'),
    '1': ObjectId('672ef44d53b37311a70d8191'),
    '2': ObjectId('672ef44d53b37311a70d8192'),
    '3': ObjectId('672ef44d53b37311a70d8193'),
    '4': ObjectId('672ef44d53b37311a70d8194')
sahadevdb> db.books.mapReduce(
function() {
    emit(this.Author_name, this.Title);
   function(key, values) {
    return values;
   },
    out: { inline: 1 }
 );
sahadevdb> db.books.mapReduce(
  function() {
     if (this.Borrowed_status === "True") {
       emit(this.Author_name, this.Title);
     }
   },
   function(key, values) {
     return values;
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out: { inline: 1 }
 );
sahadevdb> db.books.mapReduce(
   function() {
     if (this.Price > 300) {
       emit(this.Author_name, this.Title);
   },
   function(key, values) {
     return values;
   },
     out: { inline: 1 }
 );
sahadevdb> db.author_books.find();
  { _id: 'Harper Lee', value: [ 'To Kill a Mockingbird' ] },
  { _id: 'Herman Melville', value: [ 'Moby Dick' ] },
  { _id: 'Aldous Huxley', value: [ 'Brave New World' ] },
  { _id: 'F. Scott Fitzgerald', value: [ 'The Great Gatsby' ] },
  { _id: 'George Orwell', value: [ '1984' ] }
sahadevdb> db.author_books_above_300.find();
  { _id: 'George Orwell', value: [ '1984' ] },
  { _id: 'F. Scott Fitzgerald', value: [ 'The Great Gatsby' ] },
  { _id: 'Aldous Huxley', value: [ 'Brave New World' ] }
sahadevdb> db.author_borrowed_books.find();
  { _id: 'George Orwell', value: [ '1984' ] }, { _id: 'Aldous Huxley', value: [ 'Brave New World' ] },
  { _id: 'F. Scott Fitzgerald', value: [ 'The Great Gatsby' ] }
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