

Table 1

Book_Code	Book_Title	Publisher	Author
22	Stranger	Vintage	Camus
13	Dreamcatcher	Scribner	King
18	Beloved	Plume	Morrison
37	Nine	LB Books	Salinger
57	Catch 22	Scribner	Heller
61	Jazz	Plume	Morrison
69	Franny	LB Books	Salinger
75	Fall	Vintage	Camus
96	Grapes	Penguin	Morrison
98	Catcher	LB Books	Salinger

Document Stores – Use MongoDB

A. INSTRUCTIONS TO ACCESS MONGODB:

1. To Download MongoDB Shell for Windows, Mac or Linux follow the instructions found on the link below
 - a. Windows: <https://www.mongodb.com/docs/manual/tutorial/install-mongodb-onwindows/>
 - b. MAC OS: <https://www.mongodb.com/docs/manual/tutorial/install-mongodb-on-os-x/>
 - c. LINUX: <https://www.mongodb.com/docs/manual/administration/install-on-linux/>
2. Link for using a MongoDB terminal online without any downloads
 - a. No SAVE option: <https://www.jdoodle.com/online-mongodb-terminal>
 - b. SAVE option: <https://www.mycompiler.io/online-mongodb-editor>
 - c. DOWNLOAD CODE option: <https://onecompiler.com/mongodb/3xnw4yay2>
3. MongoDB documentation:
 - a. Link for MongoDB manual starting: <https://www.mongodb.com/docs/manual/introduction/>
 - b. Link for MongoDB QUERY Section: <https://docs.mongodb.com/manual/tutorial/querydocuments/>
 - c. Download MongoDB Shell on your computer: <https://www.mongodb.com/try/download/shell>

B. INSTRUCTIONS FOR MONGODB PART 2 OF PROJECT

- Create the data in Table 1 below in MongoDB
- For each of the following steps, include screenshots of your code and results

- Use MongoDB to enter the information displayed in table 1 into the collection (s) you have created

```
>_MONGOSH
> use books
< switched to db books
> db.books.insertMany([
  {book_code: 22, book_title: "Stranger", publisher: "Vintage", author: "Camus"},
  {book_code: 13, book_title: "Dreamcatcher", publisher: "Scribner", author: "King"}, {book_code: 18, book_title: "Beloved", publisher: "Plume", author: "Morrison"},
  {book_code: 37, book_title: "Nine", publisher: "LB Books", author: "Salinger"}, {book_code: 57, book_title: "Catch 22", publisher: "Scribner", author: "Heller"},
  {book_code: 61, book_title: "Jazz", publisher: "Plume", author: "Morrison"}, {book_code: 69, book_title: "Franny", publisher: "LB Books", author: "Salinger"},
  {book_code: 75, book_title: "Fall", publisher: "Vintage", author: "Camus"}, {book_code: 96, book_title: "Grapes", publisher: "Penguin", author: "Morrison"},
  {book_code: 98, book_title: "Catcher", publisher: "LB Books", author: "Salinger"}])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('663ec31417e333091927fc38'),
    '1': ObjectId('663ec31417e333091927fc39'),
    '2': ObjectId('663ec31417e333091927fc3a'),
    '3': ObjectId('663ec31417e333091927fc3b'),
    '4': ObjectId('663ec31417e333091927fc3c'),
    '5': ObjectId('663ec31417e333091927fc3d'),
    '6': ObjectId('663ec31417e333091927fc3e'),
    '7': ObjectId('663ec31417e333091927fc3f'),
    '8': ObjectId('663ec31417e333091927fc40'),
    '9': ObjectId('663ec31417e333091927fc41')
  }
}
books>
```

- Use MongoDB to show that the information has been entered into the collection(s)

```
> db.books.find();
< {
  _id: ObjectId('663ec31417e333091927fc38'),
  book_code: 22,
  book_title: 'Stranger',
  publisher: 'Vintage',
  author: 'Camus'
}
{
  _id: ObjectId('663ec31417e333091927fc39'),
  book_code: 13,
  book_title: 'Dreamcatcher',
  publisher: 'Scribner',
  author: 'King'
}
{
  _id: ObjectId('663ec31417e333091927fc3a'),
  book_code: 18,
  book_title: 'BeLoved',
  publisher: 'Plume',
  author: 'Morrison'
}
{
  _id: ObjectId('663ec31417e333091927fc3b'),
  book_code: 37,
  book_title: 'Nine',
  publisher: 'LB Books',
  author: 'Salinger'
}
```

```
{
  _id: ObjectId('663ec31417e333091927fc3c'),
  book_code: 57,
  book_title: 'Catch 22',
  publisher: 'Scribner',
  author: 'Heller'
}
{
  _id: ObjectId('663ec31417e333091927fc3d'),
  book_code: 61,
  book_title: 'Jazz',
  publisher: 'Plume',
  author: 'Morrison'
}
{
  _id: ObjectId('663ec31417e333091927fc3e'),
  book_code: 69,
  book_title: 'Franny',
  publisher: 'LB Books',
  author: 'Salinger'
}
{
  _id: ObjectId('663ec31417e333091927fc3f'),
  book_code: 75,
  book_title: 'Fall',
  publisher: 'Vintage',
  author: 'Camus'
}
```

```

{
  _id: ObjectId('663ec31417e333091927fc40'),
  book_code: 96,
  book_title: 'Grapes',
  publisher: 'Penguin',
  author: 'Morrison'
}
{
  _id: ObjectId('663ec31417e333091927fc41'),
  book_code: 98,
  book_title: 'Catcher',
  publisher: 'LB Books',
  author: 'Salinger'
}
books>

```

- Use MongoDB to run the following queries:

- a. Show all books written by author Salinger

```

> db.books.find({author:{ $regex: /Salinger/}});
< {
  _id: ObjectId('663ec31417e333091927fc3b'),
  book_code: 37,
  book_title: 'Nine',
  publisher: 'LB Books',
  author: 'Salinger'
}
{
  _id: ObjectId('663ec31417e333091927fc3e'),
  book_code: 69,
  book_title: 'Franny',
  publisher: 'LB Books',
  author: 'Salinger'
}
{
  _id: ObjectId('663ec31417e333091927fc41'),
  book_code: 98,
  book_title: 'Catcher',
  publisher: 'LB Books',
  author: 'Salinger'
}
books>

```

b. Show all books published by Vintage

```
> db.books.find({publisher:{ $regex: /Vintage/}});
< {
  _id: ObjectId('663ec31417e333091927fc38'),
  book_code: 22,
  book_title: 'Stranger',
  publisher: 'Vintage',
  author: 'Camus'
}
{
  _id: ObjectId('663ec31417e333091927fc3f'),
  book_code: 75,
  book_title: 'Fall',
  publisher: 'Vintage',
  author: 'Camus'
}
books> |
```

- c. Show all books that are published by Vintage, LB Books or Plume (use IN)

```
> db.books.find({publisher: { $in: ["Vintage", "LB Books", "Plume"] }});
< {
  _id: ObjectId('663ec31417e333091927fc38'),
  book_code: 22,
  book_title: 'Stranger',
  publisher: 'Vintage',
  author: 'Camus'
}
{
  _id: ObjectId('663ec31417e333091927fc3a'),
  book_code: 18,
  book_title: 'Beloved',
  publisher: 'Plume',
  author: 'Morrison'
}
{
  _id: ObjectId('663ec31417e333091927fc3b'),
  book_code: 37,
  book_title: 'Nine',
  publisher: 'LB Books',
  author: 'Salinger'
}
{
  _id: ObjectId('663ec31417e333091927fc3d'),
  book_code: 61,
  book_title: 'Jazz',
  publisher: 'Plume',
  author: 'Morrison'
}
```



```
{
  _id: ObjectId('663ec31417e333091927fc3e'),
  book_code: 69,
  book_title: 'Franny',
  publisher: 'LB Books',
  author: 'Salinger'
}
{
  _id: ObjectId('663ec31417e333091927fc3f'),
  book_code: 75,
  book_title: 'Fall',
  publisher: 'Vintage',
  author: 'Camus'
}
{
  _id: ObjectId('663ec31417e333091927fc41'),
  book_code: 98,
  book_title: 'Catcher',
  publisher: 'LB Books',
  author: 'Salinger'
}
books >
```

- d. Show all books published by Scribner or Plume (use OR)

```
> db.books.find({$or: [{ publisher: "Scribner" }, { publisher: "Plume" }]});
< {
  _id: ObjectId('663ec31417e333091927fc39'),
  book_code: 13,
  book_title: 'Dreamcatcher',
  publisher: 'Scribner',
  author: 'King'
}
{
  _id: ObjectId('663ec31417e333091927fc3a'),
  book_code: 18,
  book_title: 'Beloved',
  publisher: 'Plume',
  author: 'Morrison'
}
{
  _id: ObjectId('663ec31417e333091927fc3c'),
  book_code: 57,
  book_title: 'Catch 22',
  publisher: 'Scribner',
  author: 'Heller'
}
{
  _id: ObjectId('663ec31417e333091927fc3d'),
  book_code: 61,
  book_title: 'Jazz',
  publisher: 'Plume',
  author: 'Morrison'
}
```

- e. Show all books published by Penguin and written by Morrison (use AND)

```
> db.books.find({$and: [{ publisher: "Penguin" }, { author: "Morrison" }]});  
< {  
  _id: ObjectId('663ec31417e333091927fc40'),  
  book_code: 96,  
  book_title: 'Grapes',  
  publisher: 'Penguin',  
  author: 'Morrison'  
}  
books >
```