

Bansilal Ramnath Agarwal Charitable Trust's Vishwakarma Institute of Information Technology

Department of Artificial Intelligence and Data Science

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Class: SY Division: B Roll No: 272028

Semester: III Academic Year: 2022-2023

Subject Name & Code: Database Management System: ADUA21204

Title of Assignment: Design and Develop Mongo DB Queries using CRUD operations

Assignment No.- 07

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	Assignment 407	DATE: / /	
		e Odip Khaunar	
	Rolluo: 272028 PRNuo: 27110398		
1,	Brief about patabase in Mongo DB Mongo DB is a non relational document database that provide support		
	for Json-like storage. The Margo DB database has a perible data model that enables you to store unstructured data, and it provide full indexing support, and replication with rich and intuitive API		
2.	2. Briefabout collection in Mongo DA?		
Any	A collection in Mango DB & is analog to a table in a relational sql		
database, similarly, a document in Mongo DB is at anley to		to anlog to a tou in a	
	relational sgl database The existence of collection		
	required byone insuling a document in Mongo DB.		
9,	Brief about accument in Mongo DB?		
Ans	Mongoon store data record as BSON document. BSDN is a linary represent ation of JSON document, though it contain more data types than JSDN. LOTTEL BSON Spec. SEE Acollection in Mongoon is analog to a table in a relational Sq. database, similarly, a document in Mangoon is arralaged.		
	to a row is a selational sign database, Accoristed		
	dalatase		
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Implementation:

1. Creates a new database (here demo1) if it does not exist and switches to the database

```
> use demo1
switched to db demo1
```

2. Shows the current database

```
> db
demo1
```

3. Shows list of databases which have at least one document in it or else it won't be shown. Since "demo1" database does not have any document, it is not shown

```
> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
```

4. Creates collection (equivalent to tables in RDBMS) in the database

```
> db.createCollection("stud_info")
{ "ok" : 1 }
```

5. Shows collections

```
> show collections stud info
```

6. Inserts document (equivalent to rows in RDBMS) into the collection

```
> db.stud_info.insert({"Name":"AAA","Div":"A","Marks":60})
WriteResult({ "nInserted" : 1 })
```

7. To display the inserted documents

```
db.stud info.find()
  _id" : ObjectId("61a7681cd88f14c96e60ba59"),
_id" : ObjectId("61a76869d88f14c96e60ba5a"),
                                                                     "Name"
                                                                                   "AAA"
                                                                                  "BBB",
                                                                     "Name"
                                                                                            "Div"
                                                                                                         "B",
  id" : ObjectId("61a7687ad88f14c96e60ba5b"),
id" : ObjectId("61a76887d88f14c96e60ba5c"),
                                                                                                         "A",
                                                                    "Name"
                                                                                   "CCC"
                                                                                            "Div"
                                                                                                                "Marks
                                                                                                                                60
                                                                     "Name"
                                                                                   "DDD",
                                                                                             "Div"
```

8. To display the inserted documents a little better

9. To update the particular values from the document and displaying the new updated result

```
> db.stud_info.update({"Name":"DDD"},{$set:{"Marks":75}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 }
  db.stud_info.find().pretty()
          "_id" : ObjectId("61a7681cd88f14c96e60ba59"),
         "Name" : "AAA",
"Div" : "A",
          "Marks" : 60
          "_id" : ObjectId("61a76869d88f14c96e60ba5a"),
         "Name" : "BBB",
         "Div" : "B",
          "Marks" : 70
          " id" : ObjectId("61a7687ad88f14c96e60ba5b"),
         "Name" : "CCC",
         "Div" : "A",
          "Marks" : 60
          "_id" : ObjectId("61a76887d88f14c96e60ba5c"),
         "Name" : "DDD",
"Div" : "C",
          "Marks" : 75
```

10. Removing particular value from the collection and displaying the new deleted results

11. Since the database now has some value in it so it will be displayed

```
> show dbs
admin 0.000GB
config 0.000GB
demo1 0.000GB
local 0.000GB
```

12. Deletes the collection from the database

```
> db.stud_info.drop()
true
```

13. Drops the current database

```
> db.dropDatabase()
{ "ok" : 1 }
```