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	31124
	Assignment-9
	Title: MongoDB Queries
	Problem Statement:
	Design and Develop Mongo DB Queries
	using CRUD operations
	(Use CRUD operations, pretty function, etc)
	Objectives :
	- Understand the concept of binary Ison format
	- Understand the concept of Mongo DB documents - model.
	-model,
	s/w and H/w requirement:
1	Mongo DB, windows-10 64 bit, 8GB RAM. 512GB SSD
	512GB SSD
	Theory:
	Mongo DB is a cross-platform, document
	oriented database that provides high performance,
•	high availability and easy scalability MongoDB.
	works on concept of collection and documents
	Database:
	Database is a physical container for collections
	Each database gets its own set of files on the
1	file system a single Mongo DR server typically has
	multiple databases
	collections -
	collection is a group of Mongo DB ducuments
	It is equivalent of RDBMS table. Acollection exists
	within a single database. Teamer signature

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	collections do not enforce a schema, Documents
-	within a collection can have different fields. Typical
	all documents in a collection are of similar or related
	- porpose,
	Document:
	Document is a get of key-value pairs. Document
	have dynamic schema, Dynamic schema means that
9 .	documents in same collection can have different schon
	RDBMS Mongo DB
	Database Database
	Table collection
	Typle/Row Document
	column field
-	Table Join embedded documents
•	Primary Kelf Primary Key (-id)
	CRUD operations:
	1) db. create collection (name, options)
	db. COLLECTION NAME Insertione (document)
	db. COLLECTION_NAME, insert Many ([document]
•	2) db. COLLECTION -NAME, find()
	2) db. collection-NAME. find()  3) db. collection-NAME. update (criteria, update data)
-	
	a) db. COLLECTION_NAME, remove (criteria)
	5) db. COLLECTION_NAME. Sque ({ -1d! newdata})
-	
	conclusion: Successfully designed and developed
	Mongops queries for CRUD operations
	Teacher's Signature

```
Command Prompt - mongo
 show dbs
admin 0.000GB
config 0.000GB
       0.000GB
crud
local 0.000GB
> use assignment09
switched to db assignment09
> db
assignment09
 db.places.insertOne({
... student:"Rupesh",
... city:"Akot"
... })
        "acknowledged" : true,
        "insertedId" : ObjectId("618ea12711a01e44a2796284")
 db.places.insertMany([
... student:"Vimal",
... city:"Nashik"
... },
... student:"Dheeraj",
... city:"Pune"
...},
... student:"Gayatri",
... city:"Mumbai"
...}
...])
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Command Prompt - mongo
       "acknowledged" : true,
       "insertedIds" : [
              ObjectId("618ea12811a01e44a2796285"),
              ObjectId("618ea12811a01e44a2796286"),
              ObjectId("618ea12811a01e44a2796287")
 db.places.find({student:"Rupesh"}).pretty()
       "_id" : ObjectId("618ea12711a01e44a2796284"),
       "student": "Rupesh",
       "city" : "Akot"
 db.places.find({city:"Mumbai"}).pretty()
       "_id" : ObjectId("618ea12811a01e44a2796287"),
       "student" : "Gayatri",
       "city" : "Mumbai"
 db.places.update({
 .. student: "Dheeraj"
...},
.. $set:{city:"Bangaluru"}
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
 db.places.find().pretty()
       " id" : ObjectId("618ea12711a01e44a2796284"),
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```

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Command Prompt - mongo
 db.places.find().pretty()
       " id" : ObjectId("618ea12711a01e44a2796284"),
       "student": "Rupesh",
       "city" : "Akot"
       "_id" : ObjectId("618ea12811a01e44a2796285"),
       "student" : "Vimal",
       "city" : "Nashik"
       " id" : ObjectId("618ea12811a01e44a2796286"),
       "student" : "Dheeraj",
       "city": "Bangaluru"
       "_id" : ObjectId("618ea12811a01e44a2796287"),
       "student" : "Gayatri",
       "city" : "Mumbai"
 db.places.remove({
.. student: "Gayatri"
... })
WriteResult({ "nRemoved" : 1 })
 db.places.find().pretty()
       "_id" : ObjectId("618ea12711a01e44a2796284"),
       "student" : "Rupesh",
       "city" : "Akot"
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```

```
Command Prompt - mongo
 db.places.find().pretty()
        "_id" : ObjectId("618ea12711a01e44a2796284"),
        "student" : "Rupesh",
"city" : "Akot"
        "_id" : ObjectId("618ea12811a01e44a2796285"),
         "student": "Vimal",
         "city" : "Nashik"
         "_id" : ObjectId("618ea12811a01e44a2796286"),
        "student" : "Dheeraj",
"city" : "Bangaluru"
  show collections
places
```