190031187 **NERELLA VENKATA RADHAKRISHNA**

EXPERIMENT-12
PRELAB

1. What is CRUD?

CRUD - Create, Read, Update, Delete
When we are build an api's we want our models to provide four basic types of functionalities. Computer scientists often refer them as CRUD.

2. What is a Namespace in MongoDB?

MongoDB stores BSON objects in the collection. The concentration of the collection name and database name is called a namespace.

3. What are the components of the Sharded cluster?

A sharded cluster consists of shards , mongos, routers and config severs. Shards (upper left) store the application data only the mongo routers or system administrators should be connecting directly to shards .

4. What is the syntax of the limit() method and sort() method?

Syntax of limit Method
> db.collection_name.find().limit(number)
Syntax of sort Method
> db.collection_name.find().sort({KEY:1})

5. What is the difference between MongoDB and MySQL?

MySQL is a relational database management system (RDBMS) from the oracle corporation. Like other relational systems , MySQL stores data in tables and uses structured query language (SQL) for database access. MongoDB is a NoSQL database that stores data as JSON documents.

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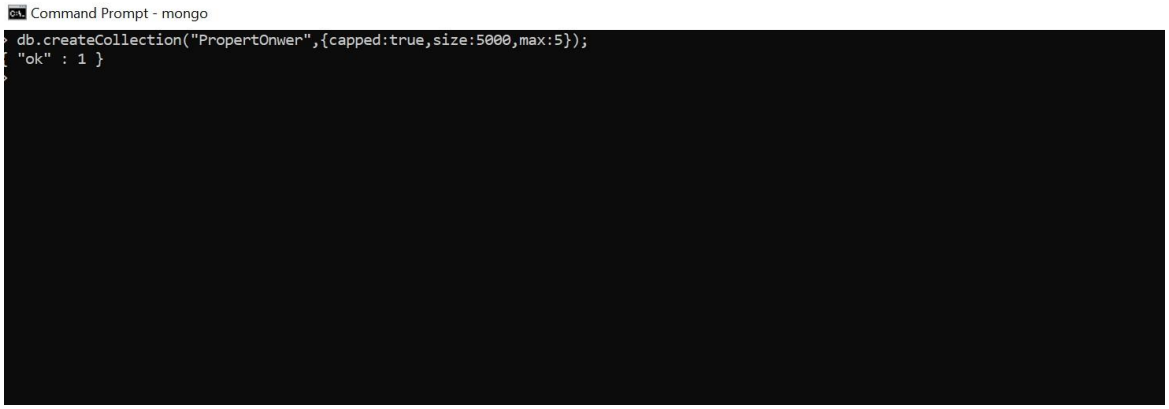
INLAB

Construct Queries using MongoDB on Case Study 7

1. **Write a query to create a collection called Property Owner with an attributes defined in skilling session 5.**

Basic Syntax:
>db.createCollection("collection name",{capped:true, size:number (bytes), max: number });
Here Collection Name is **Property Owner** So,
>db.createCollection("PropertyOwner",{capped:true, size:5000, max: 5 });

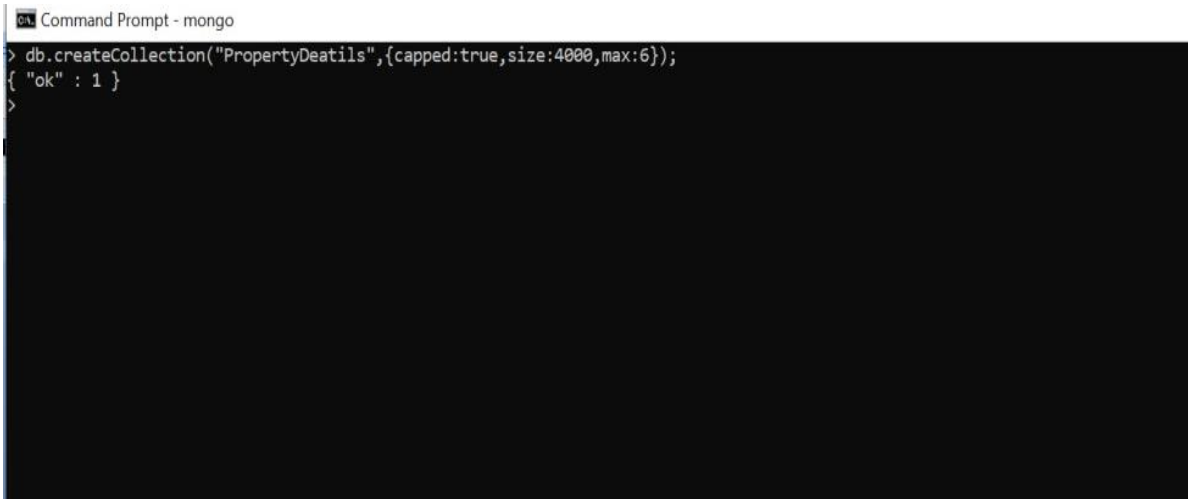


2. **Write a query to construct a collection called Business Owner with an attributes defined in skilling session 5**

Basic Syntax:
>db.createCollection("collection name",{capped:true, size:number (bytes), max: number });
Here Collection Name is **Business Owner** So,
>db.createCollection("BusinessOwner",{capped:true, size:6000, max: 7 });

3. **Write a query to create a collection with the property details with an attributes defined in lab skilling session 5**

Basic Syntax:
>db.createCollection("collection name",{capped:true, size:number (bytes), max: number });
Here Collection Name is **Property Details** So,
>db.createCollection("PropertyDetails",{capped:true, size:4000, max: 6 });



4. **Construct a query to insert data into above created collections.**

Basic Syntax:
>db.COLLECTION_NAME.insert(document)

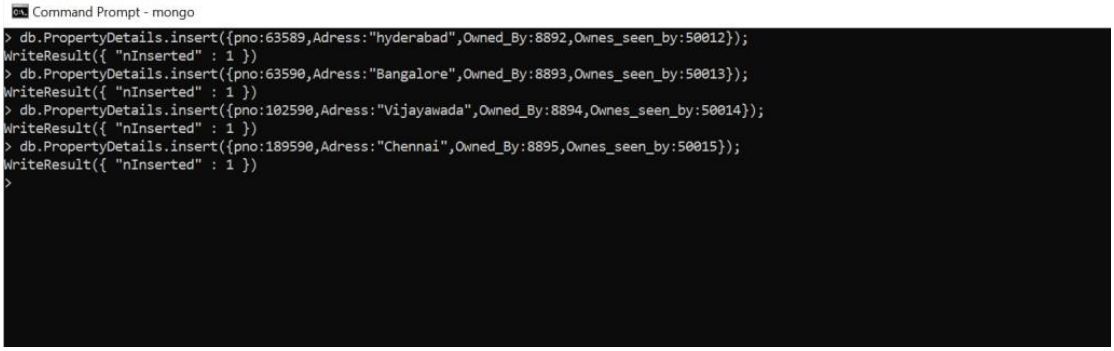
Here for PropertyOwner
>db.PropertyOwner.insert({wonerno:8000,name:”Shiva”,occupation:”Employee”,Address:” Hyderabad”,Phno:89267427846})

Basic Syntax:
>db.COLLECTION_NAME.insert(document)

Here for BusinessOwner
>db.BusinessOwner.insert({bno:9801,name:”raja”,occupation:”clerk”,Address:”Mumabi”,Phno:8869264862})

Basic Syntax:
>db.COLLECTION_NAME.insert(document)

Here for PropertyDetails
>db.PropertyDetails.insert({pno:63589Address:”hyderabad”,Owned_By:8892,Ownes_seen_by:50012})



5. Construct a query which retrieves details of Property that have hired or being hired by each renter.

6. **Construct a query which retrieves details of property submitted for hire by each property owner.**

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POSTLAB

1) MongoDB process collection of documents using_____operations.

Ans) Map-reduce

2) Which pipeline is used for aggregation in MongoDB?

Ans) MongoDB provides the db.collection.aggregate() method in the mongo shell and the aggregate ccommand to run the agggregation pipeline.

3) In aggregation pipeline, the____pipeline stage provides access to MongoDB queries.

Ans) $match

4) To suppress the _id field from the result set, specify_____in the projection document.

Ans) _id:0

5) _____command display the list of databases.

Ans) show dbs;

6) Command to check existence of collection is __

Ans) show collections