

**MongoDB Assignment**

**MongoDB Basics & CRUD**

Q.1) Create a database using “use” command.

Q.2) Create a collection name “Product” .

Q.3 ) Insert the documents

{ Product\_id : 01 ,

Product Type : “Calculator”,

Quantity : 5 ,

price : 1000

}

{ Product\_id : 02 ,

Product Type : “NoteBook” ,

Quantity : 8 ,

price : 100

}

Add 5 more documents .

Q.4) Write a MongoDB query to display all documents in the collection Products.

Q.5 ) Write a MongoDB query to display Product type where price is greater than and equal to 100.

Q.6) Add the colour “blue” where Product type is “Calculator” .

Q.7) Add the colour “grey” where product id is greater than and equal to 2.

Q.8) Write a MongoDB query to retrieve all the documents where product id is equal to 02 and price is less than 100.  
Q.9) Write a MongoDB query to retrieve all the documents in a where Product type starts with the character 'S' .

Q.10) Write a MongoDB query to retrieve all the documents where Product quantity is either 5 or 10.

Q.11) Write a MongoDB query to delete document where product id is equal to 3.

Q.12) Copy the documents from Product collection to Product1 collection .

Q.13) Drop the collection Product1.

**MongoDB Cursor**

Q.14) Write a MongoDB query to count total number of documents where price is greater than 100 .

Q.15) Write a MongoDB query to display all the Product type name.

Q.16) Write a MongoDB query to display first four documents in ascending order quantity wise.

Q.17) Write a MongoDB query to display next three documents after skipping two documents.

**Data Modeling**

Q.18) Write a MongoDB query to create a new collection customer (Customer Id , Customer name ) and add a sub document Address ( city , state and phone number).

Q.19) Write a MongoDB query to add a validator on Product collection.

Q.20) Write a MongoDB query to create collection name Employer and add two sub documents Employee1 and Employee2 . Add appropriate fields .

**Security**

Q.21) Add a new user with the “userAdmin” role in the admin database .

**Aggregation and Map-Reduce**

Q.21) Write a MongoDB query to display total price of each product type.

[ Hint : $match , $group]

Q.22 ) Write a MongoDB query to display product quantity in descending order where price is greater than 100.

Q.23 ) Write a MongoDB query to find the average ,maximum and minimum price of each Product.

Q.24) Write a MongoDB query to count total number of Products.

**Indexes**

Q.25) Create a new collection name Contact and add single index , compound index , and multikey index.

Q.26) List all the indexes of Contact collection.

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