Faculty of Computer Applications and Information Technology PG Programme - MSc (IT) – Sem – I Assignment – I

Last Date of Submission: 31st AUGUST 2023.

Subject Code: **Subject:** NOSQL LABS

SET-1

Create a collection named **"Book"** and insert 5 records with following document schema:

Book_code, Book_name, Author: more than 1 author is possible, Publisher_name, Year_of_publication, type_of_book: [textbook, reference, periodicals], Cost.

Based on the above collection, write a MongoDB query for the following:

1. Display all the documents of the collection Book with only Book_code, Book_name, and author and cost fields.

2. Update Book collection whose cost is greater than 300, update to 240 Indian rupees of Pearson publication.

3. Display the third costlier book from the collection.

4. Display the unique list of periodicals in chronologic order.

5. Rename Cost key to Price key for book published in year 2021.

SET-2

Create a collection named **"Car"** and insert 5 records with following document schema:

Model_id, Model_name, Brand_name, Type_of_car: SUV, Sedan, XUV and Motor, Dimensions: it contains color, height, width and weight, Price_on_road.

Based on the above collection, write a MongoDB query for the following:

1. Display all the documents in the collection with brand name, type of car and price of road fields.

2. Display top three costliest Car of brand Hyundai.

3. Delete all the documents whose dimensional weight is greater than 200kgs and colour black.

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4. Update car details for all Sedan cars.

5. Display all SUV cars whose price of road is greater than 10 lacs.

SET-3

Create a collection named **"Product"** and insert 5 records with following document schema:

product_id, product_name, product_type: more than 1 type is possible, cost_unit, qty_in_stock.

Based on the above collection, write a MongoDB query for the following:

1. Display those products which are electronics and having price lower than 15k, with only product_id, product_name, cost_unit, qty_in_stock.

2. Display only first 2 records whose product name is Stationary.

3. Update the cost_unit of products of Home decor category.

4. Delete product of Electronics category.

5. All new key named reorder_qty whose cost_unit range in between 10k to 15k.

SET-4

Create a collection named **"Tour_package"** and insert 5 records with following document schema:

tour_code, tour_codename, source station, destination station, type_of_package: [pilgrimage, romantic, group], category: [Premium, Deluxe and Normal], total_fare, total_kms_covered.

Based on the above collection, write a MongoDB query for the following:

1. Delete the first document of the collection having fields tour_code, tour_codename, source station and destination station.

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2. Update the tour_package collection, by updating the source station of all tours to Delhi. After updating display the records in ascending order.

3. Display three costliest tours.

4. Display the tour records whose total fare is in a range of 20K-30K and total_kms_covered lower than 2000 kms.

5. Display all tour packages who do not belong to Premium category of tour packages.

SET-5

Create a collection named **"Watch"** and insert 5 records with following document schema:

model_id, model_name, brand_name, type_of_dial: analog, digital, chronograph, dimension: it contains height, width and weight, price.

Based on the above collection, write a MongoDB query for the following:

1. Display model_name, brand, and price whose price lies in range 15k-20k.

2. Update the collection using the price field and display all the fields of document.

3. Display watch records of brand Fossil and dial type chronographic in ascending order.

4. Delete all the documents of the collection.

5. Display all watches which do not have chronographic dials.

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