No SQL-MongoDB

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Getting Started

## Overview

This lab book is a guided tour for learning Basic Spring 4.0. It comprises solved examples and ‘To Do’ assignments. Follow the steps provided in the solved examples and work out the ‘To Do’ assignments given.

## Setup Checklist for MongoDB Database

Here is what is expected on your machine in order for the lab assignments to work.

## Minimum System Requirements

* Intel Pentium IV or higher
* Microsoft Windows (NT 4.0/XP/2K)
* Memory: 256MB of RAM (512 recommended)
* 500MB hard disk space
* Mongo DB Installation 3.0.X

1. Introduction TO Mongo DB
   1. Create Your Own Database With Name “CgProductDB”.
   2. Create Collection with name “ProductCollection” in the above database.
   3. Insert unique product id , item , product category , product price , product quantity ,order Info, coords, email , mobile in above “ProductCollection”

* “Order info” has unique order id, order date and address
* “Address” has street, city, state and zip code.
* “cords” is the array having x, y coordinates of GPS

Refer “MDB AssignmnetData.txt “file for insert operation in ProductCollection collection

Note: Insert Minimum 5 product information .

Category should be “Jewellery”, ”Stationary”, ”Clothing” OR “Electronics”

Add Minimum 8 product Records in the above collection

* 1. Fetch the product based on unique product id.
  2. Fetch all product details except coord , email .
  3. Add the orderstatus = “pending” field for product id “3”
  4. Update the product price by 5000 for product name “Laptop”
  5. Update the product price by 5000 for all product having product name “Laptop”
  6. Add one more mobile number in mobiles field of order information for order id “2”
  7. Update the product price to “40.00 “and product category to “electronics” for the product having item name “CD”. Insert the product if it is not existing.
  8. Rename “item” field to “productName” in the above collection
  9. Remove the product with \_id=4.
  10. Remove all products which product name starts with "C"
  11. Find the product having productType as either “Electronics” OR “TV”
  12. Show the list of those product having price greater than 40000.
  13. Display only product name, product type and product price for those product having price greater than 40000.
  14. Display only product name, product type and product price for those product having price greater than 40000. But show only first 3 documents
  15. Find all documents which are delivered in state “MS”
  16. Sort products as per price in descending order.
  17. Sort product as per product category.
  18. Display only first 3 products
  19. Create product order report as follows.

Display-

Product Name: \_\_\_\_ Product Category: \_\_\_\_\_\_\_\_ Product Price:\_\_\_\_\_ Order Date:\_\_\_\_\_\_ Order State:\_\_\_\_\_\_\_

1.23 Find the products document maching state in “MS” OR “UP”.

1.24 Find those products having price >40000 and delivered in state “MS”.

1.25 Find List of all “electronics” delivered in city “Pune”

1.26. Sort the product by product category in ascending order and print it one by one using cursor.

Lab 2 Aggregation

2.1- Display the product with “electronic” category.

2.2-Group the product category wise and display the count.

2.3- Display how many number of products available for “Jewellery” category.

2.4- Calculate the average amount and average quantity for each category of product.

2.5- Find product name, product category, price for those product having quantity greater than 30.

Show only first 3 record.

2.6-Sort the product quantity wise in ascending order

2.7- Display the sum of total sale price category wise.

2.8-Find out which product is most selling product.

2.9- Find the product list which was ordered in year “2010”

2.10 Display category wise product name and product price.