ADBMS (MongoDB) Problem

Q1) Create Order Management System using MongoDB and Implement Following Statements

1. Retrieve all the documents from collection.
2. List the customer in ascending order of their total orders.
3. Change the product quantity from 1 to 3 of product "mobile" of any order.
4. Display the name of customers who have maximum orders.
5. Display the Mob No of customers who have highest Buying Total.
6. Display how many customers are there in customer collection.
7. Using collection of customers, and $exists, tell me how many customers belongs from Pune city.
8. Find the customer who purchased shoes and cloth product.
9. Find the top 10 buyers.
10. Display all the orders where total amount is >1000.
11. Display All the customers with corresponding buying price.
12. write a MapReduce function which will return the Total Price per Customer.

Q.2) Design the Employee Management System(Institute have different departments like Administarative, Account, Library, CSE,IT,ET,FE etc) each department have different employees with different attribute like empid, ename, city, educational background, salary, post , join_date, leaving date if any, Skills etc. using MongoDB
Implement following statements.

1. List all the employee from institute.
2. Display all the employees in seniority level(based on joining date)
3. Display total no of employees from each department.
4. List the employee details that are from Baroda or Ahmedabad and working in CSE department.
5. Display the information of employees having typing skill and working in computer department who are currently joined.
6. List of the empid, ename, department number and skill of employee whose join date is 20th of any month.
7. Calculate total experience of employee. Consider the today's date.
8. Calculate department wise total salary and display only those departments which pay maximum salary.
9. List the name of employee whose name staring with 's' or 'm' character who are working in computer department and having speaking skill.
10. Count the no of employee working in system department of Pune Location.
11. Arrange the employee name in alphabetic order whose salary between 4000 to 12000 and working in sales department.
12. Count total no of employee in Sales department.
13. Count the total no employee date wise and display only those date which having at least 2 employee.

Q.3) Create Order Management System using MongoDB and Implement Following Statements

1. Retrieve all documents in a collection
2. Retrieve all documents that contain paid orders (the "paid" field is "Y")
3. Retrieve all documents that contain the orders are from before April 2022
4. Retrieve all documents that contain unpaid orders or whose orders are from before 2019
5. Retrieve all documents that contain orders whose price is in 20000.
6. Retrieve all documents that contain orders whose price is less than 18000
7. Retrieve all documents with orders that contain product "Mobile"
8. List all documents with orders that contain products whose quantity is less than 10.

9. Retrieve all the documents from collection.
10. List the customer in ascending order of their total orders.
11. Change the product quantity from 1 to 3 of product "mobile" of any order.
12. Display the name of customers who have maximum orders.
13. Display the Mob No of customers who have highest Buying Total.
14. Display how many customers are there in customer collection.

Q.4) Design the Student Management System(Institute have different departments like CSE,IT,ET,FE etc) each department have different employees with different attribute like studentid, studentname, city, birthdate, educational background, fee, current_year , join_date, leaving date if any, Skills etc. using MongoDB
Implement following statements.

1. List all the students from institute.
2. Display all the Students in seniority level(based on birthdate)
3. Display total no of students from each department.
4. List the student details that are from Baroda or Ahmedabad and in CSE department.
5. Display the information of employees having programming skill and in computer department who are currently joined.
6. List of the studentid, studentname, department number and skill of student whose join date is 20th of any month.
7. Calculate age of each student. Consider the today's date.
8. Calculate department wise total fee and display the departments in ascending order of total fee..
9. List the name of student whose name staring with 's' or 'm' character who are in computer department and having typing skill.
10. Count the no of student in IT department of Pune Location.
11. Arrange the student name in alphabetic order whose age between 18 to 20 and in ETC department.
12. Count total no of student in CSE department.