

Exercise-I

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1 Problem Statement & Dataset

Create a collection named "Employee" under the "EmployeeDB" database with each document in the format shown below Table 1

Table 1: Document Format

Name	Age	Salary in INR	Designation	Role
{Firstname, middlename, lastname}	25-40	20000 - 75000	Employee Designation	[Manager, "Team Lead", "Software Developer", "Tester", "UI Designer"]
String BSON Object	int	Number	String	String Array

2 Queries

1. Populate the database with atleast 15 documents
2. List all the records having salary in the range of 20000 - 35000(Exclusive)
3. List all the Employee whose Middle name is "Kumar"
4. Count the number of Employees who has a role "Manager" in the Role field
5. Find out all the documents who have age < 35 and salary in the range of 30000-35000
6. Delete an Employee whose "Firstname" is "Rajesh" and having the designation as "Scientist"
7. Update all the Employees whose role is "Team Lead" with a salary of 55650 INR
8. Group all the Employees by their age(common age should be there) and calculate the average salary obtained in the each group
9. Apply the map-reduce to perform the above operation and obtain the results

3 Submission

- All the queries must be executed, and a report comprising the query name and the output should be presented in the document along with the name and USN (Neatly formatted)
- Font size : Heading - 16pt, Query title: 14 pt, Solution: 12 pt, Font: Times New Roman, Text aligned(Body Justified)
- The document should be submitted for evaluation in the google classroom Link