**Q) Find the total salary,Max salary, Min salary using Map –Reduce on Above Collection. solve in dbms**

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**Understanding the Task**

We're tasked with calculating the total salary, maximum salary, and minimum salary from the given employee collection using Map-Reduce.

**Map-Reduce Approach**

**1. Map Phase:**

* **Input:** Each employee document.
* **Output:** Key-value pairs:
  + Key: "total\_salary", "max\_salary", or "min\_salary"
  + Value: The corresponding salary value

JavaScript

function map(doc) {

emit("total\_salary", doc.salary);

emit("max\_salary", doc.salary);

emit("min\_salary", doc.salary);

}

**2. Reduce Phase:**

* **Input:** Key-value pairs emitted by the map phase.
* **Output:** The calculated total salary, maximum salary, and minimum salary.

JavaScript

function reduce(key, values) {

if (key === "total\_salary") {

return Array.sum(values);

} else if (key === "max\_salary") {

return Math.max(...values);

} else if (key === "min\_salary") {

return Math.min(...values);

}

}

**Implementing Map-Reduce in MongoDB:**

JavaScript

db.employees.mapReduce(

map,

reduce,

{ out: "salary\_stats" }

)