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Group C:
Assignment No. 15

- Aim:
Implement map reduces operation with suitable example on above mongoDB database.

- Objective:
To understand the concept of mapreduce in mongodb
To implement the concept of document oriented databases

- Theory:

1) Implements the mapreduce model for processing large data sets.
2) Can choose from one of several output options
3) mapreduce functions are written in JavaScript
4) Supports a non-shared and shared input collections

-> db.create(collection("order")
{"ok":1}
-> db.order.insert({cust-id:"A123", amount:500, status:"A"},
{cust-id:"A123", amount:250, status:"A"})

map function
Var mapfunction1 = function()
{emit(this.cust_id.this amount));};

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Reduce function

We reducefunction1 = function (key, value)
{ return Array, sum(values); };

→ db. order. mapReduce (mapfunction', reducefunction1, { query:
{ status: "A" }, out: "order-totals" });

→ db. order. mapReduce (map function → function() { emit (this. cust-id,
this. amount); };
Reduce function → function(key, value) { return array. sum(value)},
query a { query : { status : "A" }},
output collection a out : "order_totals" })

→ db. <collection name> . find())
db. order_totals . find()

- Conclusion :

By performing this, ils easy to understand to mapReduce operation in mongodb.