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Class: TE(B)COMP ROLL NO:39055

### **ASSIGNMENT 12**

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# • CREATING DATABASES AND COLLECTION:

```
> show databases;
admin     0.000GB
assign10     0.000GB
assign9     0.000GB
config     0.000GB
local      0.000GB
> use assign12
switched to db assign12
> db.createCollection("cust_orders")
{ "ok" : 1 }
```

#### • INSERTING VALUES IN THE COLLECTION:

```
> db.cust_orders.insert({cust_id:101,Amount:300,Status:"Paid",City:"Pune"})
WriteResult({ "nInserted" : 1 })
> db.cust_orders.insert({cust_id:101,Amount:500,Status:"Paid",City:"Pune"})
WriteResult({ "nInserted" : 1 })
> db.cust_orders.insert({cust_id:102,Amount:400,Status:"Not_Paid",City:"Mumbai"})
WriteResult({ "nInserted" : 1 })
> db.cust_orders.insert({cust_id:103,Amount:450,Status:"Paid",City:"Mumbai"})
WriteResult({ "nInserted" : 1 })
> db.cust_orders.insert({cust_id:101,Amount:200,Status:"Not_Paid",City:"Pune"})
WriteResult({ "nInserted" : 1 })
> db.cust_orders.insert({cust_id:103,Amount:900,Status:"Paid",City:"Mumbai"})
WriteResult({ "nInserted" : 1 })
> db.cust_orders.find().pretty()
```

• Displaying:

```
db.cust_orders.find().pretty()
      " id" : ObjectId("5fbd18db62fe6431a2fafd26"),
      "cust_id" : 101,
      "Amount" : 300,
      "Status" : "Paid",
      "City" : "Pune"
      " id" : ObjectId("5fbd18e662fe6431a2fafd27"),
      "cust id" : 101,
      "Amount" : 500,
      "Status" : "Paid",
      "City" : "Pune"
      "_id" : ObjectId("5fbd191f62fe6431a2fafd28"),
      "cust_id" : 102,
      "Amount" : 400,
      "Status" : "Not_Paid",
      "City" : "Mumbai"
      " id" : ObjectId("5fbd193162fe6431a2fafd29"),
      "cust_id" : 103,
      "Amount" : 450,
      "Status" : "Paid",
      "City" : "Mumbai"
      "_id" : ObjectId("5fbd195362fe6431a2fafd2a"),
      "cust_id" : 101,
      "Amount" : 200,
      "Status" : "Not_Paid",
      "City" : "Pune"
      "_id" : ObjectId("5fbd197062fe6431a2fafd2b"),
      "cust_id" : 103,
"Amount" : 900,
      "Status" : "Paid",
      "City" : "Mumbai"
```

# • Map Reduce:

### Method1:

1)Displaying total amount paid by a customer:-

> db.cust\_orders.mapReduce(function(){emit(this.cust\_id,this.Amount);},function(key,values){return Array.sum(values)},{query:{"Status":"Paid"},out:"total paid"})

```
{ "result" : "total_paid", "ok" : 1 } > db.total_paid.find() { "_id" : 101, "value" : 800 }
```

```
{ "_id": 103, "value": 1350 }
>

db.cust_orders.mapReduce(function(){emit(this.cust_id,this.Amount);},function(key,values){return Array.sum(values)},{query:{"Status":"Paid"},out:"total_paid"})

{ "result": "total_paid", "ok": 1 }

> db.total_paid.find()
{ "_id": 101, "value": 800 }
{ "_id": 103, "value": 1350 }

>
```

## Method2:

2) Displaying total amount shopping done by a customer:-

```
> var mapfun1 = function(){emit(this.cust_id,this.Amount);};
> var reducefun1 = function(key,values){return Array.sum(values);};
> db.cust_orders.mapReduce(mapfun1,reducefun1,{out:"total_amount"})
{"result": "total_amount", "ok": 1}
> db.total_amount.find()
{"_id": 102, "value": 400 }
{"_id": 103, "value": 1350 }
{"_id": 101, "value": 1000 }
> var mapfun1 = function(){emit(this.cust_id,this.Amount);};
> var reducefun1 = function(key,values){return Array.sum(values);};
> db.cust_orders.mapReduce(mapfun1,reducefun1,{out:"total_amount"})
{ "result": "total_amount", "ok": 1 }
> db.total_amount.find()
{ "_id": 102, "value": 400 }
{ "_id": 103, "value": 1350 }
{ "_id": 101, "value": 1000 }
> __
```