## **MapReduce Code:**

```
var map4 = function(){emit(this.Restaurant_Name,1);};
var red4 = function(id,cnt) {return Array.sum(cnt);};
db.abc.mapReduce(map4,red4,{out:"map_red_exam"})

var map5 = function(){emit(this.Has_Online_delivery,1);};
var red5 = function(id,cnt) {return Array.sum(cnt);};
db.abc.mapReduce(map5,red5,{out:"map_red_exam1"})

var map6 = function(){emit(this.Is_delivering_now,1);};
var red6 = function(id,cnt) {return Array.sum(cnt);};
db.abc.mapReduce(map6,red6,{out:"map_red_exam2"})

var map8 = function(){emit(this.Has_Table_boooking,1);};
var red8 = function(id,cnt) {return Array.sum(cnt);};
db.abc.mapReduce(map8,red8,{out:"map_red_exam4"})
```

## **Screenshots of MapReduce operation on MongoDB:**

```
MongoDB Enterprise > db.createCollection("abc")
{ "ok" : 1 }
MongoDB Enterprise > ^C
bye

C:\Users\PRATHMESHPATIL\mongodb-win32-x86_64-enterprise-windows-64-4.2.13\bin>monogimport --db restaurant --collection abc --type csv --file G:\pdb\yelp.csv
'monogimport' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\PRATHMESHPATIL\mongodb-win32-x86_64-enterprise-windows-64-4.2.13\bin>monogimport --db restaurant --collection abc --type csv --file G:\pdb\yelp.csv
2021-06-15T20:36:57.418+0530 error validating settings: must specify --fields, --fieldFile or --headerline to import this file type

C:\Users\PRATHMESHPATIL\mongodb-win32-x86_64-enterprise-windows-64-4.2.13\bin>mongoimport --db restaurant --collection abc --type csv --headerline --file G:\pdb\yelp.csv
2021-06-15T20:37:17.077+0530 connected to: mongodb://localhost/
2021-06-15T20:37:18.103+0530 9551 document(s) imported successfully. 0 document(s) failed to import.
```

```
MongoDB Enterprise > use restaurant
switched to db restaurant
MongoDB Enterprise > db.abc.find().pretty()
            "_id" : ObjectId("60c8c22557a5069d05d973de"),
           "Restaurant ID" : 6317637,
"Restaurant_Name" : "Le Petit Souffle",
           "Restaurant_Name
"Country_Code" : 162,
"Makati City",
           "City": "Makati City",
"Address": "Third Floor, Century City Mall, Kalayaan Avenue, Poblacion, Makati City",
"Locality": "Century City Mall, Poblacion, Makati City",
"Locality_Verbose": "Century City Mall, Poblacion, Makati City, Makati City",
"Locality_Verbose": "And 027535
           "Latitude": 14.565443,
"Cuisines": "French, Japanese, Desserts",
"Average_Cost_for_two": 1100,
           "Currency": "Botswana Pula(P)",
"Has Table booking": "Yes",
"Has_Online_delivery": "No",
"Is_delivering_now": "No",
           "Switch_to_order_menu" : "No",
           "Price_range": 3,

"Aggregate_rating": 4.8,

"Rating_color": "Dark Green",

"Rating_text": "Excellent",

"Votes": 314
MongoDB Enterprise > var map4 = function(){emit(this.Restaurant_Name,1);};
MongoDB Enterprise > var red4 = function(id,cnt) {return Array.sum(cnt);};
MongoDB Enterprise > db.abc.mapReduce(map4,red4,{out:"map_red_exam"})
              "result" : "map_red_exam",
"timeMillis" : 1694,
             "counts" : {
    "input" : 9551,
    "emit" : 9551,
                            "reduce" : 740,
"output" : 7446
             },
"ok" : 1
MongoDB Enterprise > db.map_red_exam.find().pretty()
  __id" : "#hashtag", "value" : 1 }
"_id" : "'Ohana", "value" : 1 }
    _id" : "10 Downing Street", "value" : 2 }
'_id" : "10 To 10 In Delhi", "value" : 1 }
     _id" : "11th Avenue Cafe Bistro", "value" : 1 }
    __id" : "19 Flavours Biryani", "value" : 1 }
"_id" : "1911 - The Imperial", "value" : 1 }
"_id" : "1911 Bar - The Imperial", "value" : 1 }
  __id" : "1918 Bistro & Grill", "value" : 1 }
Type "it" for more
 :\Users\PRATHVESHPATIL\mongodb-win32-x86_64-enterprise-windows-64-4.2.13\bin>mongoexport --db restaurant --collection map_red_exam --out G:\pdb\storecount.csv
821-06-15T20:46:20.110+0530 connected to: mongodb://localhost/
821-06-15T20:46:20.388+0530 exported 7446 records
```

```
MongoDB Enterprise > use restaurant
switched to db restaurant
MongoDB Enterprise > var map5 = function(){emit(this.Has_Online_delivery,1);};
MongoDB Enterprise > var red5 = function(id,cnt) {return Array.sum(cnt);};
MongoDB Enterprise > db.abc.mapReduce(map5,red5,{out:"map_red_exam1"})
        "result" : "map_red_exam1",
"timeMillis" : 703,
         "counts" : {
                 "input" : 9551,
                  "emit" : 9551,
                  "reduce" : 183,
"output" : 2
        },
"ok" : 1
MongoDB Enterprise > db.map_red_exam1.find().pretty()
{ "_id" : "No", "value" : 7100 }
{ "_id" : "Yes", "value" : 2451 }
MongoDB Enterprise > db.map_red_exam1.find()
 "_id" : "No", "value" : 7100 }
"_id" : "Yes", "value" : 2451 }
MongoDB Enterprise > var map6 = function(){emit(this.Is_delivering_now,1);};
MongoDB Enterprise > var red6 = function(id,cnt) {return Array.sum(cnt);};
MongoDB Enterprise > db.abc.mapReduce(map6,red6,{out:"map_red_exam2"})
         "result" : "map_red_exam2",
         "timeMillis" : 502,
         "counts" : {
                 "input" : 9551,
                  "emit" : 9551,
                  "reduce" : 108,
"output" : 2
        },
"ok" : 1
MongoDB Enterprise >
MongoDB Enterprise > db.map_red_exam2.find().pretty()
 "_id" : "No", "value" : 9517 }
"_id" : "Yes", "value" : 34 }
MongoDB Enterprise > var map7 = function(){emit(this.Has_Online_delivery,1);};
MongoDB Enterprise > var red7 = function(id,cnt) {return Array.sum(cnt);};
MongoDB Enterprise > db.abc.mapReduce(map7,red7,{out:"map_red_exam3"})
         "result" : "map red exam3",
         "timeMillis" : 722,
         "counts" : {
                   "input" : 9551,
                   "emit": 9551,
                   "reduce" : 183,
"output" : 2
MongoDB Enterprise > db.map red exam3.find().pretty()
  "_id" : "No", "value" : 7100 }
"_id" : "Yes", "value" : 2451 }
MongoDB Enterprise > exit
bye
```

```
COURSE PARTICLE PROGRAM (12) - 308 d. d. centerprice various of 4.2.13\binomongosuport - db restaurant - collection map_red_examl --out 6.\pdb\haschleveringrou.cvv

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