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Class: TE 1 Q Batch
Roll No. : 35
1. Return the Total Salary of per Company
Empdb> var mapfunc=function() {emit(this.Company Name,this.Salary);};
Empdb> var reducefunc=function(key,values) {return Array.sum(values);};
Empdb> var
output=db.Employee.mapReduce(mapfunc, reducefunc, {out: "Company Total Salary"
});
DeprecationWarning: Collection.mapReduce() is deprecated. Use an
aggregation instead.
Empdb> db[output.result].find();
  { id: 'Infosys', value: 4400000 },
  { _id: 'Wipro', value: 200000 },
  { _id: 'Bharat Infotech', value: 80000 },
  { id: 'SKF', value: 100000 },
  { id: 'Google Inc.', value: 100000 },
  { _id: 'Sandvik', value: 600000 },
  { id: 'TCS', value: 439000 }
1
2. Return the Total Salary of Company Name: "TCS"
Empdb> var mapfunc2=function() {emit("TCS",this.Salary);};
Empdb> var reducefunc2=function(key,values) {return Array.sum(values)}
Empdb> var
output2=db.Employee.mapReduce(mapfunc2, reducefunc2, {out: "Total Salary TCS"}
)
Empdb> db[output2.result].find()
[ { _id: 'TCS', value: 5919000 } ]
3. Return the Avg Salary of Company whose address is "Pune".
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Empdb> db.Employee.mapReduce(
... function()
... {
... if (this.Address.City==="Pune") {
... emit(this.Company Name,this.Salary);
...}
...},
... function(key,values) {
... return Array.avg(values);
... },
... {
... out: "Avg Salary Pune"
...}
...);
{ result: 'Avg_Salary_Pune', ok: 1 }
Empdb> db.Avg Salary Pune.find()
 { _id: 'Bharat Infotech', value: 80000 },
 { _id: 'Google Inc.', value: 100000 },
 { id: 'Infosys', value: 237500 },
 { _id: 'TCS', value: 79500 },
  { _id: 'Wipro', value: 80000 }
1
4. Return the Total Salary for each Designation of Infosys.
Empdb> db.Employee.mapReduce(
... function() {
... if (this.Company Name==="Infosys") {
... emit(this.Designation,this.Salary);
... } },
... function(key,values) {
... return Array.sum(values);
... },
... query: {Company Name: "Infosys"},
... out: "Infosys Total Sal"
... } );
{ result: 'Infosys_Total_Sal', ok: 1 }
Empdb> db.Infosys Total Sal.find()
  { _id: 'Programmer', value: 80000 },
 { _id: 'Back End Developer', value: 600000 },
 { _id: 'Software Developer', value: 50000 },
 { id: 'Tester', value: 280000 },
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{ _id: 'DBA', value: 3390000 }
5.Return total count for "City=PCMC"
db.Employee.mapReduce(
      function () {
        if (this.Address.City === "PCMC") {
          emit("City=PCMC", 1);
        }
      },
      function (key, values) {
        return Array.sum(values);
      },
       out: "total count pcmc"
...);
{ result: 'total count pcmc', ok: 1 }
Empdb>
Empdb> db.total count pcmc.find();
[ { id: 'City=PCMC', value: 4 } ]
6. Return Count for City PCMC and Age greater than 20.
Empdb> db.Employee.mapReduce(
.count pcmc age gt 20.find();
      function () {
        if (this.Address.City === "PCMC" && this.age > 20) {
          emit("City=PCMC and Age > 20", 1);
        }
      },
      function (key, values) {
        return Array.sum(values);
      },
       out: "count_pcmc_age_gt_20"
...);
{ result: 'count_pcmc_age_gt_20', ok: 1 }
Empdb> db.count pcmc age gt 20.find()
[ { id: 'City=PCMC and Age > 20', value: 4 } ]
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