**ASSIGNMENT 3 MAP REDUCE FUNCTION**

> use assi3mapreduce

switched to db assi3mapreduce

> db.stud.insert({"name":'stud1','marks':80});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({"name":'stud2','marks':70});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({"name":'stud3','marks':75});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({"name":'stud4','marks':57});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({"name":'stud1','marks':69});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({"name":'stud3','marks':88});

WriteResult({ "nInserted" : 1 })

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> db.stud.find();

{ "\_id" : ObjectId("61928d3525c7985c0ba1dec9"), "name" : "stud1", "marks" : 80 }

{ "\_id" : ObjectId("61928d3c25c7985c0ba1deca"), "name" : "stud2", "marks" : 70 }

{ "\_id" : ObjectId("61928d4425c7985c0ba1decb"), "name" : "stud3", "marks" : 75 }

{ "\_id" : ObjectId("61928d4c25c7985c0ba1decc"), "name" : "stud4", "marks" : 57 }

{ "\_id" : ObjectId("61928d5425c7985c0ba1decd"), "name" : "stud1", "marks" : 69 }

{ "\_id" : ObjectId("61928d5c25c7985c0ba1dece"), "name" : "stud3", "marks" : 88 }

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> db.stud.mapReduce(

... function(){emit(this.name,1)},

... function(key,values){return Array.sum(values)},

... {out:"name\_total"})

{ "result" : "name\_total", "ok" : 1 }

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> var mapFunc=function(){emit(this.name,1)}

> var redFunc=function(key,values){return Array.sum(values);}

> var mapFunc1=function(){emit(this.name,1);}

> db.stud.mapReduce(mapFunc1 ,redFunc,{out:"name\_total"})

{ "result" : "name\_total", "ok" : 1 }

> db.name\_total.find();

{ "\_id" : "stud1", "value" : 2 }

{ "\_id" : "stud4", "value" : 1 }

{ "\_id" : "stud2", "value" : 1 }

{ "\_id" : "stud3", "value" : 2 }

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> var mapFunc2=function(){emit(this.name,this.marks);}

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> db.stud.mapReduce(mapFunc2,redFunc,{out:"name\_total\_marks"})

{ "result" : "name\_total\_marks", "ok" : 1 }

>

> db.name\_total\_marks.find();

{ "\_id" : "stud4", "value" : 57 }

{ "\_id" : "stud2", "value" : 70 }

{ "\_id" : "stud3", "value" : 163 }

{ "\_id" : "stud1", "value" : 149 }

>

>exit

> use assi2aggindex;

switched to db assi2aggindex

> show collections;

ass2

> db.ass2.find();

{ "\_id" : ObjectId("619143551b160fe44cd517aa"), "roll" : 1, "name" : "stud1", "subject" : "oop", "marks" : 90 }

{ "\_id" : ObjectId("619143681b160fe44cd517ab"), "roll" : 2, "name" : "stud2", "subject" : "toc", "marks" : 57 }

{ "\_id" : ObjectId("6191437f1b160fe44cd517ac"), "roll" : 3, "name" : "stud3", "subject" : "cpp", "marks" : 67 }

{ "\_id" : ObjectId("6191438e1b160fe44cd517ad"), "roll" : 4, "name" : "stud4", "subject" : "cns", "marks" : 77 }

{ "\_id" : ObjectId("6191439e1b160fe44cd517ae"), "roll" : 5, "name" : "stud5", "subject" : "dbms", "marks" : 97 }

{ "\_id" : ObjectId("619143b01b160fe44cd517af"), "roll" : 6, "name" : "stud6", "subject" : "spos", "marks" : 87 }

{ "\_id" : ObjectId("6191471e1b160fe44cd517b1"), "roll" : 8, "name" : "stud5", "subject" : "dbms", "marks" : 50 }

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> var mapFunc=function(){emit(this.subject,this.marks);}

> var redFunc=function(key,values){var markss=0; for(var i=0 ;i<values.length;i++){ markss+=values[i];} return markss; }

>

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> db.ass2.mapReduce(mapFunc ,redFunc ,{out:"total\_sub"})

{ "result" : "total\_sub", "ok" : 1 }

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> db.total\_sub.find();

{ "\_id" : "dbms", "value" : 147 }

{ "\_id" : "oop", "value" : 90 }

{ "\_id" : "cns", "value" : 77 }

{ "\_id" : "spos", "value" : 87 }

{ "\_id" : "toc", "value" : 57 }

{ "\_id" : "cpp", "value" : 67 }

>

>exit