

Roll no. 31145

Assignment No. 11

```
mongo --host 10.10.8.119 --port 27017 te31145_db
```

```
db.orders.insertMany([
  {_id: 1, customer: "Song Joong-ki", amount: 480},
  {_id: 2, customer: "Kim Seon-ho", amount: 300},
  {_id: 3, customer: "Kim Tae-hyung", amount: 700},
  {_id: 4, customer: "Song Joong-ki", amount: 560},
  {_id: 5, customer: "Kim Seon-ho", amount: 120},
]);
```

```
var mapFunction = function() {
  emit(this.customer, this.amount);
};
```

```
var reduceFunction = function(keyCustomer,
  valueAmounts) {
  return Array.sum(valueAmounts);
};
```

```
db.orders.mapReduce(
  mapFunction,
  reduceFunction,
  { out: "total_spent_per_customer" }
);
```

```
db.total_spent_per_customer.find().pretty();
```

```
> use te31145_db
switched to db te31145_db
> db.orders.insertMany([
...   {_id: 1, customer: "Song Joong-ki", amount: 480},
...   {_id: 2, customer: "Kim Seon-ho", amount: 300},
...   {_id: 3, customer: "Kim Tae-hyung", amount: 700},
...   {_id: 4, customer: "Song Joong-ki", amount: 560},
...   {_id: 5, customer: "Kim Seon-ho", amount: 120},
... ]);
{ "acknowledged" : true, "insertedIds" : [ 1, 2, 3, 4, 5 ] }
> var mapFunction = function() {
...   emit(this.customer, this.amount);
... };
> var reduceFunction = function(keyCustomer, valueAmounts) {
...   return Array.sum(valueAmounts);
... };
> db.orders.mapReduce(
...   mapFunction,
...   reduceFunction,
...   { out: "total_spent_per_customer" }
... );
{
  "result" : "total_spent_per_customer",
  "timeMillis" : 333,
  "counts" : {
    "input" : 5,
    "emit" : 5,
    "reduce" : 2,
    "output" : 3
  },
  "ok" : 1
}
> db.total_spent_per_customer.find().pretty();
{ "_id" : "Kim Seon-ho", "value" : 420 }
{ "_id" : "Kim Tae-hyung", "value" : 700 }
{ "_id" : "Song Joong-ki", "value" : 1040 }
> █
```