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3. domaća zadaća iz NMBP-a (3rd homework Advanced Databases) (MR)

1(</>)

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3 days 02:09:19

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Koristeći kolekciju dvdrent izračunajte prosječan iznos plaćanja najma u 2016 godini i koliko je postotno različit od prosjeka svih prethodnih godina zajedno. Prosjek zaokružiti na 4 decimale, a postotnu razliku na dvije i formatirati na dvije.

Nazivi atributa i format se vide iz primjera rezultata:

Using the dvdrent collection calculate the average amount of rent payment in 2016 and difference in percentages from the average of all the previous years together. Round the average to 4 decimal places, and the percentage difference to 2 decimal places (also format to two places).

Attribute names and the overall result format can be seen from the example: (see above).

```
1
   db.dvdrent.mapReduce(
                                                                                          Run
 2
      `function() {
 3
         var key = {year: 2016}
 4
         if (new Date(this.payment.payment_date).getFullYear() == 2016) {
 5
            var value = {count2016: 1, payment2016: this.payment.amount, count0: 0, payment0:
   0}
         } else if(new Date(this.payment.payment_date).getFullYear() < 2016){</pre>
 6
 7
            var value = {count2016: 0, payment2016: 0, count0: 1, payment0:
   this.payment.amount}
 8
         } else {
 9
             var value = {count2016: 0, payment2016: 0, count0: 0, payment0: 0}
10
11
         emit (key, value)
      };`,
12
       `function(key, values) {
13
14
         var rv = {
15
            count2016: 0,
16
            payment2016: 0,
17
            count0: 0,
18
            payment0: 0
19
```

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```
20
         values.forEach(function(value) {
21
            rv.count2016 += value.count2016
22
            rv.payment2016 += value.payment2016
23
            rv.count0 += value.count0
            rv.payment0 += value.payment0
24
25
         })
26
         return rv
27
28
29
         out: "videoteka2",
30
         query: {"payment.payment_date": {$not: {$eq: null}}}},
         finalize: `function(key, rv) {
31
32
            var newRv = {}
33
            var avg2016 = rv.payment2016/rv.count2016
34
            var avg0 = rv.payment0/rv.count0
35
            newRv.avg = parseFloat(avg2016).toFixed(4)
36
            var differ = ((avg2016-avg0)/avg0)*100
37
            newRv.diff = differ.toFixed(2) + "%"
38
            return newRv
39
40
41
42
43
44
45
46
```

© Correct! Well done!

Result:

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