

HEALTH INSURANCE DATABASE SYSTEM

Milestone #4

Group 23
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Query to find the average of the entire bill amount of treating various injuries

```
db.getCollection("bill").find({})

db.bill.aggregate([
  {
    $group : {
      _id: "aggregates",
      average_insured: {
        $avg: "$bill_amt"
      },
    },
  }
])
```

```
{
  "_id" : "aggregates",
  "average_insured" : 54632.075
}
```

Query to find top 10 costliest test

```
db.getCollection("test").find({})

db.test.aggregate([
{$group: {_id: "$Test_code", Price: {$max: "$Price"}}},
{$project: {_id: 0, "Test_code": "$_id", Price: 1}},
{$sort: {Price: -1}},
{$limit: 10}
])
```

```
{
  "Price" : NumberInt(9962),
  "Test_code" : NumberInt(64)
}
{
  "Price" : NumberInt(9944),
  "Test_code" : NumberInt(193)
}
{
  "Price" : NumberInt(9938),
  "Test_code" : NumberInt(194)
}
{
  "Price" : NumberInt(9930),
  "Test_code" : NumberInt(129)
}
{
  "Price" : NumberInt(9909),
  "Test_code" : NumberInt(59)
}
{
  "Price" : NumberInt(9857),
  "Test_code" : NumberInt(36)
}
{
  "Price" : NumberInt(9851),
  "Test_code" : NumberInt(13)
}
{
  "Price" : NumberInt(9830),
  "Test_code" : NumberInt(9)
```

Count of patients who were insured.

```
db.getCollection("patient_info").find({})  
  
db.patient_info.aggregate(  
  [  
    {  
      $match: {  
        Status: {  
          $eq: "true"  
        }  
      },  
    },  
    {  
      $count: "Patients who had Insurance"  
    }  
  ]  
)
```

```
{  
  "Active_Patient_Count" : NumberInt(90)  
}
```

Count of hospitals in Massachusetts that are under insurance cover

```
db.hospital.aggregate(  
[  
  {  
    $match: {  
      isunderinsurance: {  
        $eq :true  
      }  
    }  
  },  
  {  
    $count: "Hospital under Insurance"  
  }  
]  
)
```

```
{  
  "Hospital under Insurance" : NumberInt(47)  
}
```