Pregled i analiza podataka o oglasima za posao

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Opis skupa podataka

https://www.kaggle.com/datasets/andresionek/data-jobs-listings-glassdoor

¬Skup podataka o svim aktivnim oglasima za posao u jednom danu na globalnom sajtu za pronalaženje poslova Glassdoor. Sastoji se od 15 csv fajlova koji ukupno imaju 265 kolona i zauzimaju 1.6GB memorije.

Agregacije

- 1. 10 gradova sa najvise oglasa za posao u Francuskoj
- 2. Prosecna plata u zavisnosti od velicine firme u Velikoj Britaniji
- 3. 5 Najplacenijih poslova u Velikoj Britaniji
- 4. Najbolje prosecno ocenjene kompanije sa bar 50 ocena zaposlenih
- 5. Plate programera i seniora u Velikoj Britaniji i Njemacka

- 6. Koja je prosecna ocena benefita u Londonu koji u svojim uslugama imaju benefit "rad od kuce"?
- 7. Koja je najcesce rangirana industrija u Londonu?
- 8. Koji je najcesci emp u Srbiji koji je ocenjen bar jednom, a radi za posao Softverskog inzinjera ili front end developera?
- 9. Izlistaj koji poslovi imaju benefit sportskih usluga, kao i koliko ih ima?
- 10. Koji su top 5 industrija u kojima Softverski inzinjeri zaradjuju navise para?

Inicijalna logicka sema

Sastoji se od 4 csv fajla spojeni u jednu kolekciju

Za kreiranje i popunjavanje kolekcija korištene Python skripte, upotrebom PyMongo i csv paketa

Inicijalna logicka sema

Кеу	Value	Туре
> (3) (7) {_id : 0000016e56d0b5c1ae9faad8d730a05c}	{ 12 fields }	Document
> (3) (8) {_id : 0000016e56d0b8bd9723afa8a8463e86}	{ 13 fields }	Document
> (0) (9) {_id : 0000016e56d0b8f2906e0190a37a4e65}	{ 13 fields }	Document
> (3) (10) {_id: 0000016e56d0b96392202798c868f4be}	{ 12 fields }	Document
▼ ① (11) {_id: 0000016e56d0b93bac2678ecd4fd82b0}	{ 15 fields }	Document
<u>□</u> _id	0000016e56d0b93bac2678ecd4fd82b0	String
<u>i</u> empld	2482936	Int32
ET empName	HSBC Global Technology (HSBC GLT)	String
<u>"</u> " empSize	-1-0	String
⊞ industryld	200048	Int32
industry industry	Banks & Credit Unions	String
in jobld	3388450352	String
in jobTitle	Digital Product Manager, Digital Customer Onboarding - Retail Banking and Wealth Management	String
<u>□</u> location		String
Country	HK	String
[관] benefitRating	4.0	Double
ı nubmerOfRatings	1	Int32
> [] benefits	[1 elements]	Array
> [] reviews	[1 elements]	Array
> [] salaries	[5 elements]	Array
> 🚺 (12) {_id: 0000016e56d0b91c94a12db296d1fe29}	{ 13 fields }	Document
> 🚺 (13) {_id:0000016e56d0b86d98d6968991dcb96d}	{ 12 fields }	Document
> (14) {_id: 0000016e56d0b9bea98208eaf4884505}	{ 15 fields }	Document

Inicijalna logicka sema

(25) normal ornamings		moe
_	[1 elements]	Array
_	{ 6 fields }	Object
_	false	String
図 rating	4.0	Double
[] jobTitle		String
The state the state is a state of the state	England	String
city	Birmingham	String
🔄 comment	Good Pension, holidays, yearly bonus, flexible working hours, Perks vouchers, you can have community days etc	String
✓ [] reviews	[1 elements]	Array
∨ (j) 0	{ 8 fields }	Object
<u>□</u> _id	28285413	String
123 overallRating	3.0	Double
[23] compBenefitsRating	5.0	Double
ाः cultureValuesRating	3.0	Double
ाः seniorManagmentRating	2.0	Double
ाः workLifeBalanceRating	3.0	Double
🛄 jobTitle	Development Officer	String
🛄 currentJob	Former Employee: I worked at HSBC Global Technology (HSBC GLT) full-time for more than a year	String
✓ [] salaries	[5 elements]	Array
> 🚯 0	{ 4 fields }	Object
∨ () 1	{ 4 fields }	Object
☐ jobTitle	Business Analyst	String
🛄 payCount	1	String
ाः payPercentile10	31711.792408057277	Double
	34392.2724544732	Double
	{ 4 fields }	Object
	{ 4 fields }	Object
	{ 4 fields }	Object
> ∅ (12) {_id : 0000016e56d0b91c94a12db296d1fe29}	{ 13 fields }	Document
/ 		

Skripta za popunjavanje sema

```
def add jobs to db(self, url, db name):
    client = pymongo.MongoClient(url)
   db = client[db name]
   db['glassdoor'].delete many({})
    jobs = []
   with open(self. file, 'r', encoding = 'cp850') as csv file:
        reader = csv.DictReader(csv file)
        for row in reader:
            job = self.get job(row)
                job['benefits'] = self.benefits[row['benefits.comments']]
            try:
                job['reviews'] = self.reviews[row['reviews']]
                pass
            try:
                job['salaries'] = self.salaries[row['salary.salaries']]
                pass
            jobs.append(job)
    db['qlassdoor'].insert many(jobs)
```

```
def get_job(self, row) -> dict:
    return {
        '_id': row['gaTrackerData.pageRequestGuid.guid'],
        'empId': int(row['gaTrackerData.empId']),
        'empName': row['gaTrackerData.empName'],
        'empSize': row['gaTrackerData.empSize'],
        'industryId': int(row['gaTrackerData.industryId']),
        'industry': row['gaTrackerData.industry'],
        'jobId': row['gaTrackerData.jobId.long'],
        'jobTitle': row['gaTrackerData.jobTitle'],
        'location': row['gaTrackerData.location'],
        'country': row['map.country'],
        'benefitRating': float(row['benefits.benefitRatingDecimal']),
        'nubmerOfRatings': int(row['benefits.numRatings']),
}
```

1. 10 gradova sa najvise oglasa za posao u Francuskoj - vreme izvrsavanja

```
00:00:00.199
```

2. Prosecna plata u zavisnosti od velicine firme u Velikoj Britaniji – vreme izvrsavanja:

```
00:00:00.20
```

3. 5 Najplacenijih poslova u Velikoj Britaniji – vreme izvrsavanja: 1 🕚 00:00:00.213

```
//3. 5 Najplacenijih poslova u Velikoj Britaniji
db.getCollection("glassdoor").aggregate([
  { Sunwind: "Salaries" },
  { $match: { country: "United Kingdom" } },
   $group:
     id: { country: "$country", jobTitle: "$salaries.jobTitle" },
     maxPayPercentile90: { $max: "$salaries.payPercentile90" },
   $sort: { maxPayPercentile90: -1 } },
   $limit: 5 },
   $project: {
    id: 0,
     jobTitle: "$ id.jobTitle",
     maxPayPercentile90: 1,
```

4. Najbolje prosecno ocenjene kompanije sa bar 50 ocena zaposlenih – vreme izvrsavanja:

```
① 00:00:00.995
```

5. Plate programera i seniora u Velikoj Britaniji i Njemacka – vreme izvrsavanja:

```
① 00:00:00.220
```

```
db.getCollection("glassdoor").aggregate([
  { Sunwind: "Ssalaries" },
    $match: {
     country: { $in: ["Germany", "United Kingdom"] },
      "salaries.jobTitle": {
        $in: ["Software Engineer", "Senior Software Engineer"],
    $group:
     id: { country: "$country", jobTitle: "$salaries.jobTitle" },
      avgPayPercentile10: { $avg: "$salaries.payPercentile10" },
      avgPayPercentile90: { $avg: "$salaries.payPercentile90" },
   $sort: { avgPayPercentile90: -1 } },
    $project: {
      id: 0,
      jobTitle: "$ id.jobTitle",
      coutry: "$ id.country",
      avgPayPercentile10: 1,
      avgPayPercentile90: 1,
```

- 6. Koja je prosecna ocena benefita u Londonu koji u svojim uslugama imaju benefit "rad od kuce"?
- vreme izvrsavanja: ① 00:00:00.185

```
db.glassdoor.aggregate([
    $match: {
      $and:
        { location: "London" },
          $or: [
            { "benefits.comment": { $regex: "work from home" } },
              "benefits.comment": { $regex: "Work from home" } },
   $qroup: { id: null, average benefit rating: { $avq: "$benefitRating" } } },
    $project: {
      id: "Average benefit rating",
      average rating: { $round: ["$average benefit rating", 2] },
```

7. Koja je najcesce rangirana industrija u Londonu? – vreme izvrsavanja:

```
① 00:00:00.22
```

```
db.glassdoor.aggregate([
 { $match: { location: "London" } },
    $group: {
      id: {
       industry: "$industry",
       industryId: "$industryId",
       numberOfRatings: "$nubmerOfRatings",
   $project: {
     industry: "$ id.industry",
     number: "$ id.numberOfRatings",
     location: "$location",
  { $match: { number: { $gt: 0 } } },
 { $sort: { number: -1 } },
 { $project: { most rated industry: "$industry" } },
  { $limit: 1 },
```

8. Koja je najcesca firma u Srbiji koja je ocenjena bar jednom, a radi za posao Softverskog inzinjera ili front end developera? – vreme izvrsavanja: 0 0:00:00:180

```
db.glassdoor.aggregate([
  { Smatch: { country: "Serbia" } },
    $match: {
     $or:
      { jobTitle: { $regex: "Software" } },
      { jobTitle: { $regex: "software" } },
       { jobTitle: { $regex: "front" } },
        { jobTitle: { $regex: "Front" } },
    $group:
     id: { name: "$empName", empId: "$empId", empSize: "$empSize" },
     num: { $sum: "$nubmerOfRatings" },
  { $project: { emp: "$ id.name", num: "$num" } },
  { $match: { num: { $gt: 0 } } },
  { $sort: { num: -1 } },
  { $limit: 1 },
   $project: { emp: "$ id.name", num: "$num" } },
```

9. Izlistaj koji poslovi imaju benefit sportskih usluga, kao i koliko ih ima? – vreme izvrsavanja:

```
(I) 00:00:00.708
```

```
db.glassdoor.aggregate([
    $match: {
     $or:
         "benefits.comment": { $regex: "Sport" } },
         "benefits.comment": { $regex: "sport" } },
         "benefits.comment": { $regex: "sports" } },
         "benefits.comment": { $regex: "Sports" } },
    $project: { jobTitle: "$jobTitle" } },
    $group: { id: "$jobTitle", count: { $sum: 1 } } },
    $project: { jobTitle: "$ id", num of jobs with this benefit: "$count" } },
    $sort: { num of jobs with this benefit: -1, id: 1 } },
    $limit: 5 },
```

10. Koji su top 5 industrija u kojima Softverski inzinjeri zaradjuju navise para? – vreme izvrsavanja: 🛈 00:00:00.225

```
db.glassdoor.aggregate([
  $unwind: "$salaries" },
   $match: { jobTitle: "Software Engineer" } },
   $group: {
     id: { industry: "$industry", industryId: "$industryId" },
     average: { $avg: "$salaries.payPercentile90" },
   $project:
     industry: "$ id.industry",
     average salary: { $round: ["$average", 2] },
   $sort: { average salary: -1 } },
   $limit: 5 },
```

Logicka sema prilagodjena agregacijama

- Sastoji se iz 5 kolekcija: jobs, salaries, benefits, reviews, salary_per_job
- Kolekcije su dobijene primenom sablona baketiranja i proracunavanja na postojece kolekcije
- Grupisanje je vrseno vecinom po drzavama i lokacijama jer su se ti atributi cesto koristili za grupisanje u agregacijama

Kolekcija jobs

- Osmisljena kao osnovni prikaz poslova
- Dobijena je uklanjanjem suvisnih kolona koje nisu potrebne za osnovno prikazivanje i dodavanje indexa za drzave i gradove zbog cestih pretraga po njima

✓ ① (43) {_id : { 7 fields }}	{ 3 fields }	Document
✓ () _id	{ 7 fields }	Object
in jobTitle	Database Engineer	String
country country	India	String
□ location	Hyderabad	String
empName	Zenoti	String
empSize	201-500	String
industry industry	Computer Hardware & Software	String
123 benefitRating	0.0	Double
iza jobListingCount	1.0	Double
332 number	0	Int32
	lead to a	

Skripta za kreiranje kolekcije jobs

```
db.getCollection("jobs").createIndex({ "_id.country": 1 });
db.getCollection("jobs").createIndex({ "_id.location": 1 });
```

```
db.getCollection("glassdoor").aggregate(
      $group: {
        id:
          jobTitle: "$jobTitle",
          country: "$country",
          location: "$location",
          empName: "$empName",
          empSize: "$empSize",
          industry: "$industry",
          benefitRating: "$benefitRating",
          numberOfRatings: "$numberOfRating",
        jobListingCount: { $sum: 1 },
      $project: {
        id:
          jobTitle: "$ id.jobTitle",
          country: "$ id.country",
          location: "$ id.location",
          empName: "$ id.empName",
          empSize: "$ id.empSize",
          industry: "$ id.industry",
          benefitRating: "$ id.benefitRating",
          numberOfRatings: "$ id.numberOfRating",
        jobListingCount: 1,
      $out: { db: "sbp-v2", coll: "jobs" } },
    allowDiskUse: true
```

Kolekcija salaries

Dobijena baketiranjem i proracunavanjem osnovnih informacija o platama kompanija

▼ (1) {_id : { 2 fields }}	{ 9 fields }	Document
∨ ① _id	{ 2 fields }	Object
in jobTitle	Intern Project Manager	String
country	FR	String
図 avgPayPercentile10	14158.126760216765	Double
123 avgPayPercentile90	15353.187009734096	Double
캠캠 maxPayPercentile10	14172.448569825296	Double
캠캠 maxPayPercentile90	15497.40157551932	Double
123 minPayPercentile10	14143.804950608233	Double
123 minPayPercentile90	15208.972443948873	Double
[편] jobListingCount	2.0	Double
▼ [i] jobDetails	[2 elements]	Array
∨ (i) 0	{ 5 fields }	Object
🛄 location	Paris	String
empName	Qubit	String
empSize	201-500	String
industry industry	Computer Hardware & Software	String
læ benefitRating	4.421052631578948	Double
> <u>()</u> 1	{ 5 fields }	Object

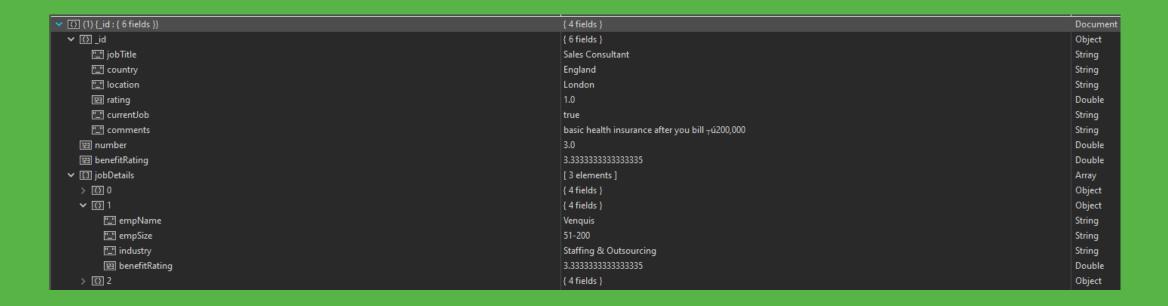
Skripta za kreiranje kolekcije salaries

```
db.getCollection("salaries").createIndex({ "_id.country": 1 });
db.getCollection("salaries").createIndex({ "_id.location": 1 });
```

```
db.getCollection("glassdoor").aggregate(
     $unwind: "$salaries" },
      $group: {
        id: { jobTitle: "$salaries.jobTitle", country: "$country" },
        avgPayPercentile10: { $avg: "$salaries.payPercentile10" },
        avgPayPercentile90: { $avg: "$salaries.payPercentile90" },
        maxPayPercentile10: { $max: "$salaries.payPercentile10" },
        maxPayPercentile90: { $max: "$salaries.payPercentile90" },
        minPayPercentile10: { $min: "$salaries.payPercentile10" },
        minPayPercentile90: { $min: "$salaries.payPercentile90" },
        jobListingCount: { $sum: 1 },
        jobDetails: {
          $push: {
            empName: "$empName",
            empSize: "$empSize",
            industry: "$industry",
            benefitRating: "$benefitRating",
            numberOfRatings: "$numberOfRating",
      $project: {
        id: { jobTitle: "$ id.jobTitle", country: "$ id.country" },
        avgPayPercentile10: 1,
        avgPayPercentile90: 1,
        maxPayPercentile10: 1,
        maxPayPercentile90: 1,
        minPayPercentile10: 1,
        minPayPercentile90: 1,
        jobListingCount: 1,
        jobDetails: 1,
    { $out: { db: "sbp-v2", coll: "salaries" } },
    allowDiskUse: true }
```

Kolekcija benefits

Dobijena baketiranjem informacija o benefitima kompanija



Skripta za kreiranje kolekcije benefits

```
db.getCollection("glassdoor").aggregate(
     Sunwind: "Sbenefits",
     $group:
       id:
         jobTitle: "$jobTitle",
         comments: "$benefits.comment",
         location: "$location",
         benefitRating: "$benefitRating",
       number: { $sum: 1 },
     $project:
       id:
         jobTitle: "$ id.jobTitle",
         comments: "$ id.comments",
         location: "$ id.location",
         benefitRating: "$ id.benefitRating",
       number: "$number",
     $out: { db: "sbp-v2", coll: "benefits" } },
   allowDiskUse: true
```

Kolekcija reviews

Dobijena baketiranjem i proracunavanjem osnovnih informacija o ocenama zaposlenih o kompaniji

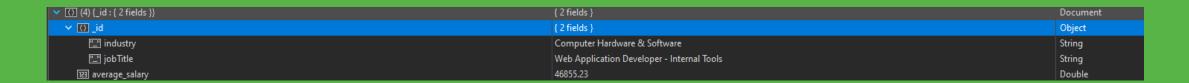
▼ (2) {_id : Brightcove}	{7 fields}	Document
<u>□</u> _id	Brightcove	String
IE∃ avgOverallRating	5.0	Double
I avgCompBenefitsRating	4.5	Double
№ avgCultureValuesRating	5.0	Double
☐ avgSeniorManagmentRating ☐ avgSeniorManagmen	4.5	Double
[편] avgWorkLifeBalanceRating	5.0	Double
IB∃ reviewsCount	58.0	Double

Skripta za kreiranje kolekcije reviews

```
db.getCollection("glassdoor").aggregate(
      $unwind: "$reviews" },
      $group: {
        id: "$empName",
        avgOverallRating: { $avg: "$reviews.overallRating" },
        avqCompBenefitsRating: { $avq: "$reviews.compBenefitsRating" },
        avgCultureValuesRating: { $avg: "$reviews.cultureValuesRating" },
        avqSeniorManagmentRating: { $avq: "$reviews.seniorManagmentRating" },
        avgWorkLifeBalanceRating: { $avg: "$reviews.workLifeBalanceRating" },
        reviewsCount: { $sum: 1 },
      $project: {
        id: 1,
        avgOverallRating: 1,
        avgCompBenefitsRating: 1,
        avgCultureValuesRating: 1,
        avgSeniorManagmentRating: 1,
        avgWorkLifeBalanceRating: 1,
        reviewsCount: 1,
     $out: { db: "sbp-v2", coll: "reviews" } },
    allowDiskUse: true }
```

Kolekcija salary_per_job

Dobijena baketiranjem po razlicitim poslovima



Skripta za kreiranje kolekcije salary_per_job

```
db.getCollection("glassdoor").aggregate(
      $unwind: "$salaries",
      $group:
        id:
          industry: "$industry",
          jobTitle: "$jobTitle",
        average salary: { $avq: "$salaries.payPercentile90" },
      $project: {
        id:
          industry: "$ id.industry",
          jobTitle: "$ id.jobTitle",
        average salary: { $round: ["$average salary", 2] },
     $out: { db: "sbp-v2", coll: "salary per job" } },
    allowDiskUse: true
```

1. 10 gradova sa najvise oglasa za posao u Francuskoj - vreme izvrsavanja

```
00:00:00.010
```

```
db.getCollection("jobs").aggregate([
    $match:
      $and: [{ " id.country": "France", " id.location": { $ne: "" } }],
    $group:
     id: "$ id.location",
      jobListingCount: { $sum: "$jobListingCount" },
    $sort: { jobListingCount: -1 } },
    $limit: 10 },
```

2. Prosecna plata u zavisnosti od velicine firme u Velikoj Britaniji – vreme izvrsavanja: 🚺 00:00:00.016

```
db.getCollection("salaries").aggregate([
   $match: { " id.country": "United Kingdom" } },
    $unwind: "$jobDetails" },
    $group: {
     id: "$jobDetails.empSize",
     payPercentile90: { $avg: "$avgPayPercentile90" },
    $sort: { payPercentile90: -1 } },
```

3. 5 Najplacenijih poslova u Velikoj Britaniji – vreme izvrsavanja: 🐧 00:00:00:005

```
//3. 5 Najplacenijih poslova u Velikoj Britaniji
db.qetCollection("salaries").aggregate([
  { $match: { " id.country": "United Kingdom" } },
    $sort: { maxPayPercentile90: -1 } },
    $limit: 5 },
    $project: {
     id: 0,
     jobTitle: "$ id.jobTitle",
     maxPayPercentile90: "$maxPayPercentile90",
```

4. Najbolje prosecno ocenjene kompanije sa bar 50 ocena zaposlenih – vreme izvrsavanja: 0 00:00:00.016

```
db.getCollection("reviews").aggregate([
   $match: { reviewsCount: { $gt: 50 } } },
   $sort: { avgOverallRating: -1, reviewsCount: -1 } },
```

5. Plate programera i seniora u Velikoj Britaniji i Njemacka – vreme izvrsavanja: 🛈

```
00:00:00.00
```

```
db.getCollection("glassdoor").aggregate([
   $unwind: "$salaries" },
   $match: {
     country: { $in: ["Germany", "United Kingdom"] },
      "salaries.jobTitle": {
       $in: ["Software Engineer", "Senior Software Engineer"],
    $group:
     id: { country: "$country", jobTitle: "$salaries.jobTitle" },
     avgPayPercentile10: { $avg: "$salaries.payPercentile10" },
     avgPayPercentile90: { $avg: "$salaries.payPercentile90" },
   $sort: { avgPayPercentile90: -1 } },
   $project: {
     id: 0,
     jobTitle: "$ id.jobTitle",
      coutry: "$ id.country",
     avgPayPercentile10: 1,
     avgPayPercentile90: 1,
```

- 6. Koja je prosecna ocena benefita u Londonu koji u svojim uslugama imaju benefit "rad od kuce"?
- vreme izvrsavanja: ① 00:00:00.106

```
db.benefits.aggregate([
   $match:
      $and:
        { " id.location": "London" },
         $or:
             " id.comments": { $regex: "work from home" } },
             "id.comments": { $regex: "Work from home" } },
   $qroup:
     average benefit rating: { $avg: "$ id.benefitRating" },
     id: "Average benefit rating",
     average rating: { $round: ["$average benefit rating", 2] },
```

7. Koja je najcesce rangirana industrija u Londonu? – vreme izvrsavanja: 🐧 00:00:00.007

```
db.jobs.aggregate([
    $match: { " id.location": "London" } },
    $project: {
      industry: "$ id.industry",
     number: "$number",
     location: "$ id.location",
    $match: { number: { $qt: 0 } } },
    $sort: { number: -1 } },
    $project: { most rated industry: "$industry" } },
    $limit: 1 },
```

8. Koja je najcesca firma u Srbiji koja je ocenjena bar jednom, a radi za posao Softverskog inzinjera ili front end developera? – vreme izvrsavanja: ① 00:00:00:00

```
db.jobs.aggregate([
   $match: { " id.country": "Serbia" } },
    $match: {
      $or: [
        { " id.jobTitle": { $regex: "Software" } },
       { " id.jobTitle": { $regex: "software" } },
        { " id.jobTitle": { $regex: "front" } },
          " id.jobTitle": { $regex: "Front" } },
    $project: { emp: "$ id.name", num: "$number" } },
   $match: { num: { $qt: 0 } } },
   $sort: { num: -1 } },
   $limit: 1 },
   $project: { emp: "$ id.empName", num: "$num" } },
```

9. Izlistaj koji poslovi imaju benefit sportskih usluga, kao i koliko ih ima? – vreme izvrsavanja: 📋 🐽

```
① 00:00:00.310
```

```
db.benefits.aggregate([
    $match: {
      Sor: [
        { " id.comments": { $regex: "Sport" } },
         " id.comments": { $regex: "sport" } },
         " id.comments": { $regex: "Sports" } },
         " id.comments": { $regex: "sports" } },
    $project: { jobTitle: "$ id.jobTitle" } },
   $group: { id: "$jobTitle", count: { $sum: 1 } } },
   $project: { jobTitle: "$ id", num of jobs with this benefit: "$count" } },
   $sort: { num of jobs with this benefit: -1, id: 1 } },
    $limit: 5 },
```

10. Koji su top 5 industrija u kojima Softverski inzinjeri zaradjuju navise para? – vreme izvrsavanja: 🕦 00:00:00.035

```
db.salary per job.aggregate([
  { $match: { " id.jobTitle": "Software Engineer" } },
    $project: { industry: "$ id.industry", average salary: "$average salary" },
    $sort: { average salary: -1 } },
  {    $limit: 5    },
```

Agregacije

- 1. 10 gradova sa najvise oglasa za posao u Francuskoj
- 2. Prosecna plata u zavisnosti od velicine firme u Velikoj Britaniji
- 3. 5 Najplacenijih poslova u Velikoj Britaniji
- 4. Najbolje prosecno ocenjene kompanije sa bar 50 ocena zaposlenih
- 5. Plate programera i seniora u Velikoj Britaniji i Njemacka

- 6. Koja je prosecna ocena benefita u Londonu koji u svojim uslugama imaju benefit "rad od kuce"?
- 7. Koja je najcesce rangirana industrija u Londonu?
- 8. Koji je najcesci emp u Srbiji koji je ocenjen bar jednom, a radi za posao Softverskog inzinjera ili front end developera?
- 9. Izlistaj koji poslovi imaju benefit sportskih usluga, kao i koliko ih ima?
- 10. Koji su top 5 industrija u kojima Softverski inzinjeri zaradjuju navise para?

Poredjenje performansi

