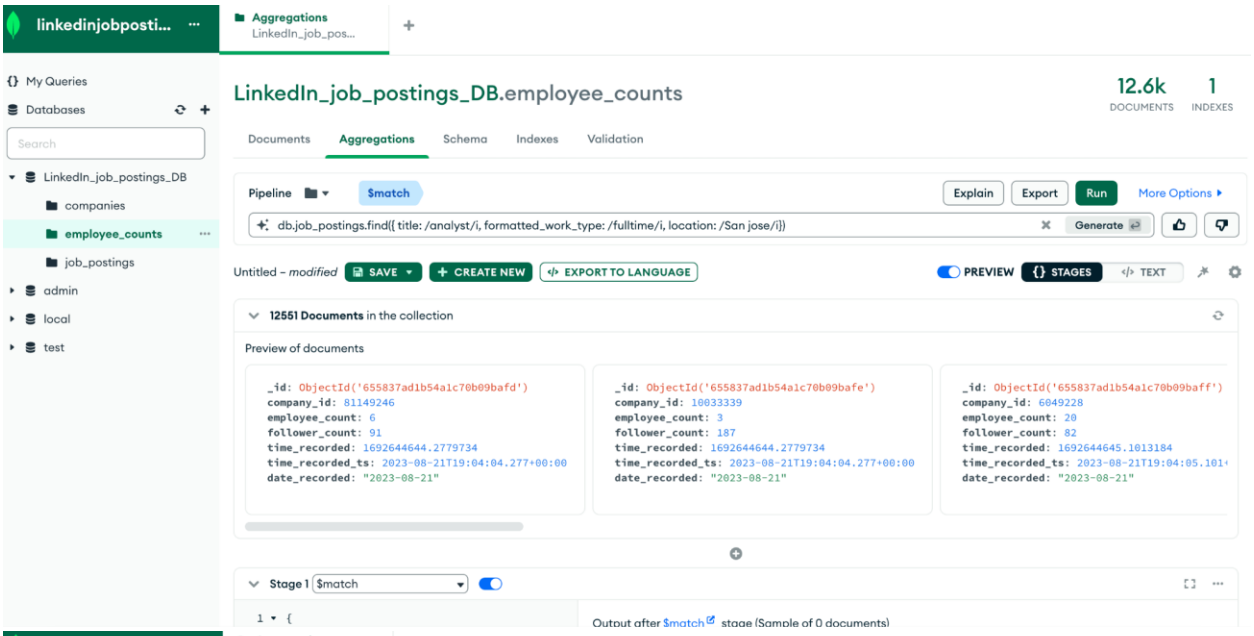
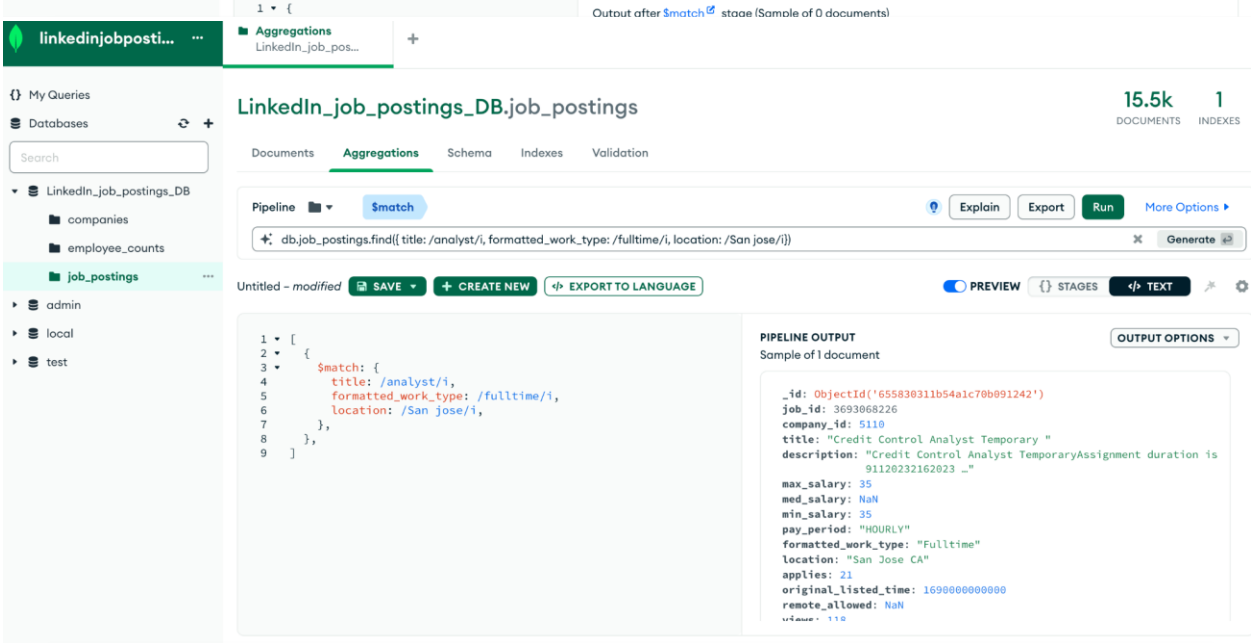
LAB 2: Linked In Job Postings MQL Queries

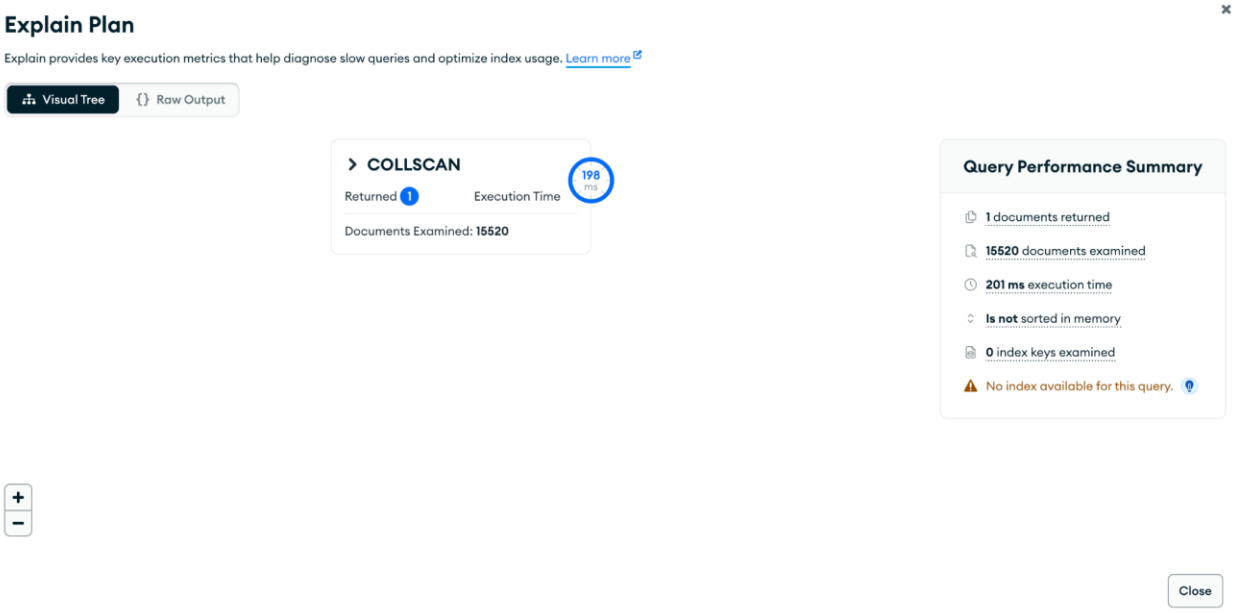
1. List of jobs that have ‘analyst’ in the title, are full-time and based in San Jose, CA

Query:
db.job_postings.find({ title: /analyst/i, formatted_work_type: /fulltime/i, location: /San jose/i})



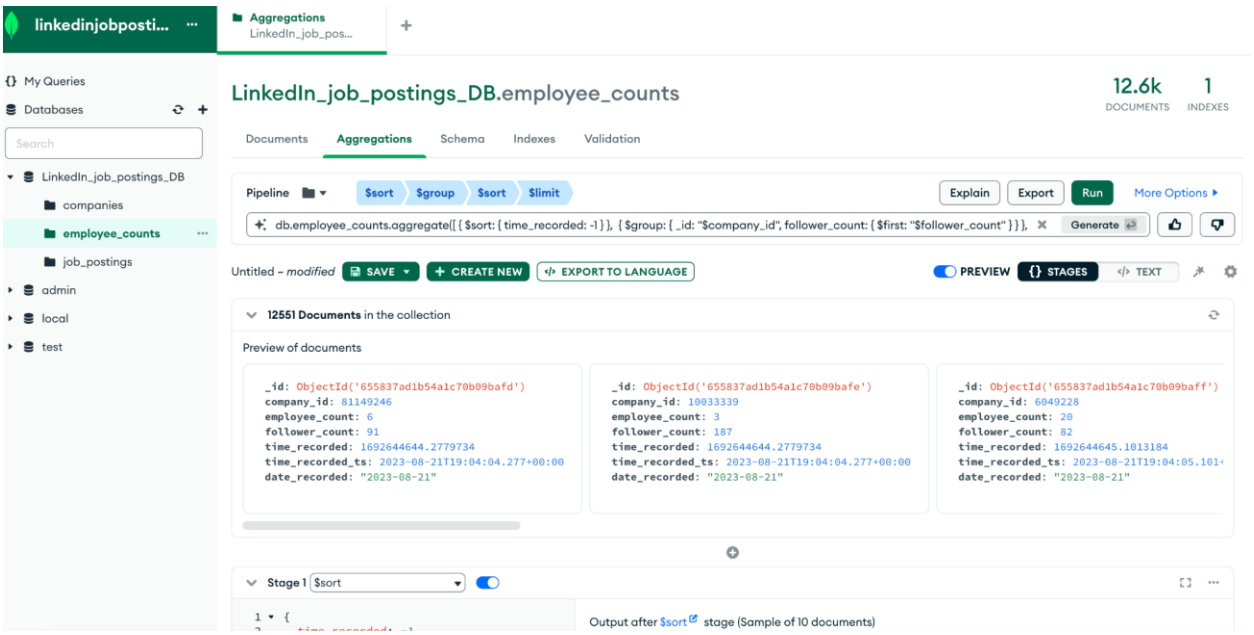


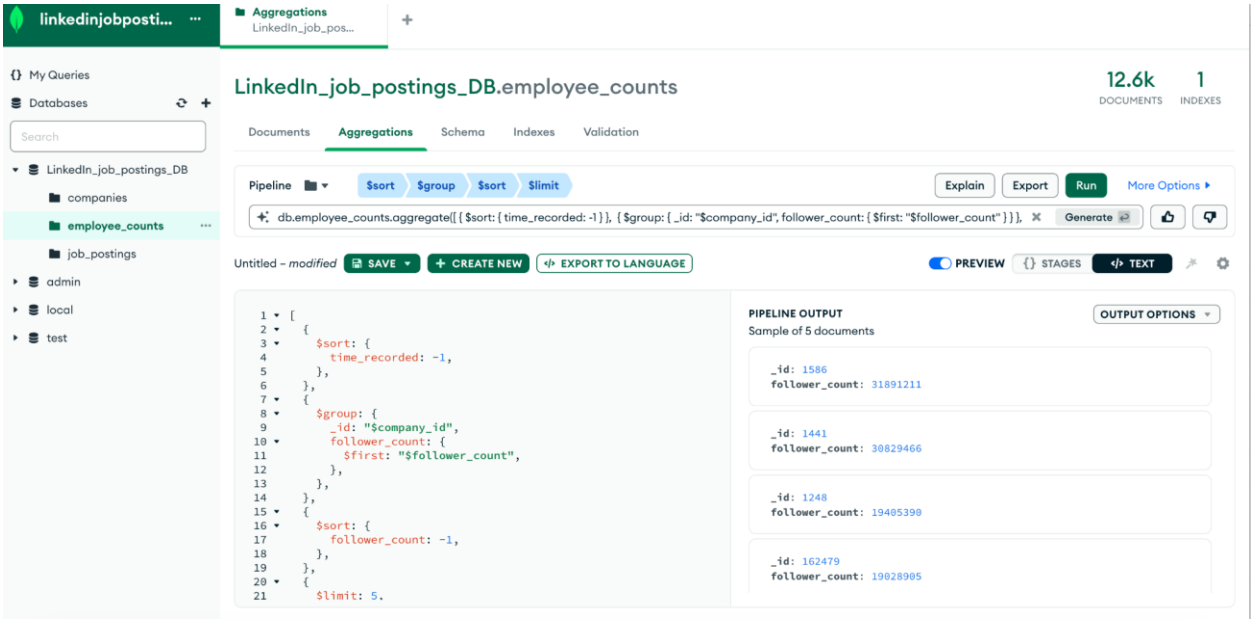
Query Performance:



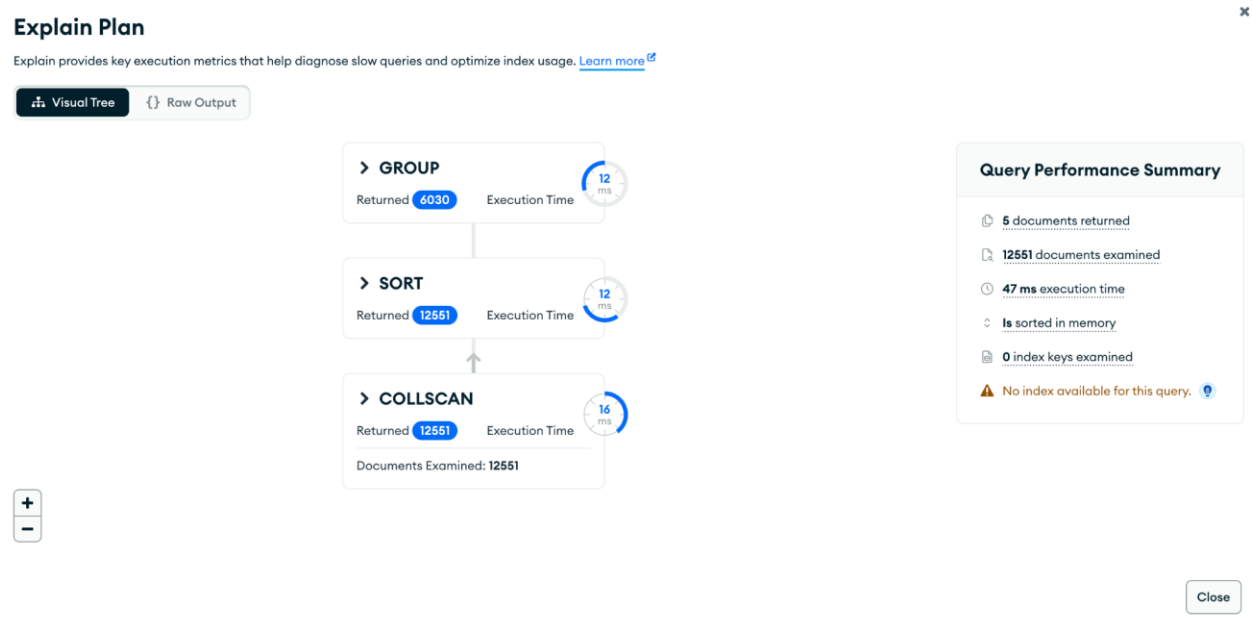
2. Companies with the highest increase in follower count (top 5)

Query:
db.employee_counts.aggregate([{ $sort: { time_recorded: -1 } }, { $group: { _id: "$company_id", follower_count: { $first: "$follower_count" } } }, { $sort: { follower_count: -1 } }, { $limit: 5 }])





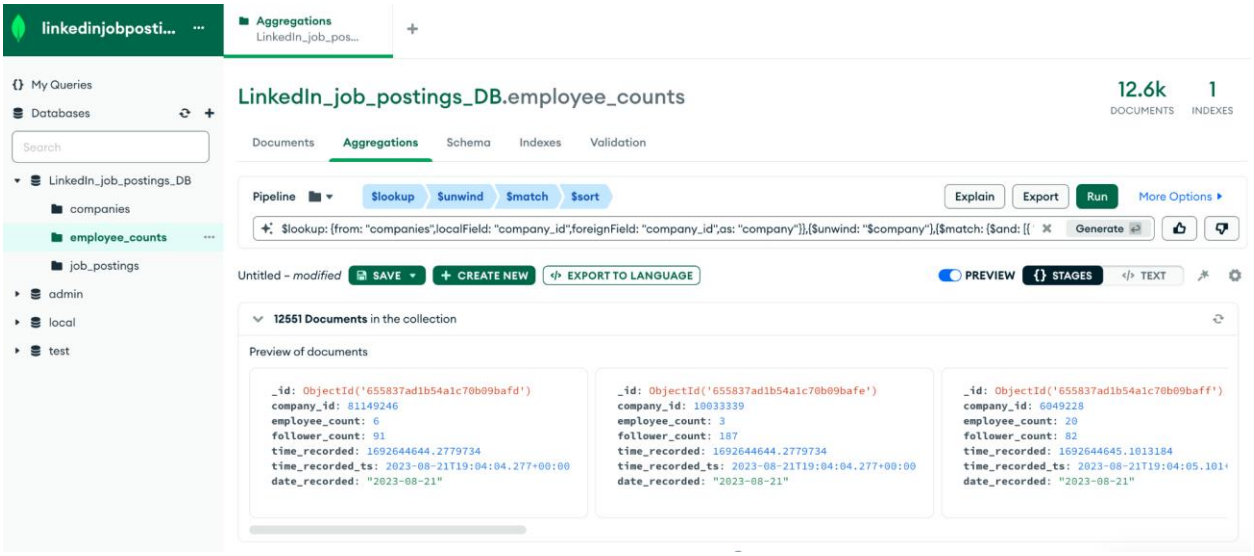
Query Performance:



3. List of jobs by companies that have ‘big data’ or ‘data analytics’ as a specialty in NY state ordered by descending median salary

Query:

db.job_postings.aggregate([{$lookup: {from: "companies",localField: "company_id",foreignField: "company_id",as: "company"}},{$unwind: "$company"},{$match: {$and: [{ "company.state": /New York/i },{$or: [{ "company.speciality": /data analytics/i }, { "company.speciality": /big data/i }]}]}},{$sort: {med_salary: -1}}]);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$match
$sort
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More Options
$lookup: {from: "companies",localField: "company_id",foreignField: "company_id",as: "company"},{$unwind: "$company"},{$match: {$and: [{
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
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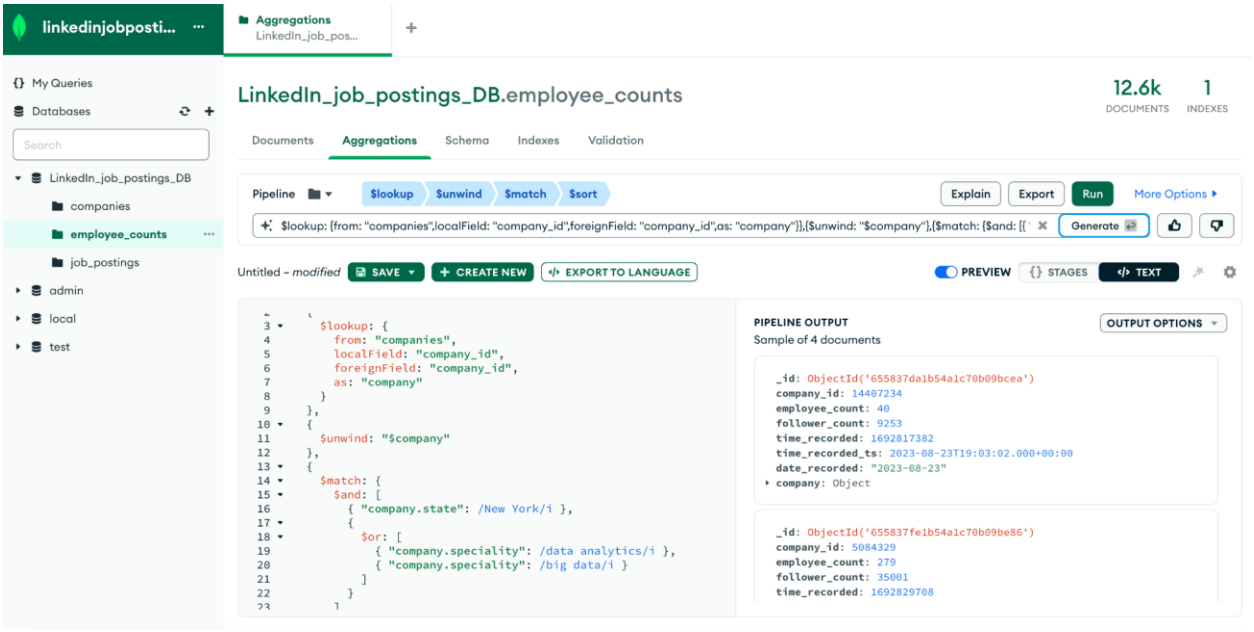
TEXT
12551 Documents in the collection
Preview of documents
_id: ObjectId('655837ad1b54a1c70b09bafd')
company_id: 81149246
employee_count: 6
follower_count: 91
time_recorded: 1692644644.2779734
time_recorded_ts: 2023-08-21T19:04:04.277+00:00
date_recorded: "2023-08-21"
_id: ObjectId('655837ad1b54a1c70b09bafe')
company_id: 10033339
employee_count: 3
follower_count: 187
time_recorded: 1692644644.2779734
time_recorded_ts: 2023-08-21T19:04:04.277+00:00
date_recorded: "2023-08-21"
_id: ObjectId('655837ad1b54a1c70b09baff')
company_id: 6049228
employee_count: 20
follower_count: 82
time_recorded: 1692644645.1013184
date_recorded: "2023-08-21"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$unwind
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$sort
Explain
Export
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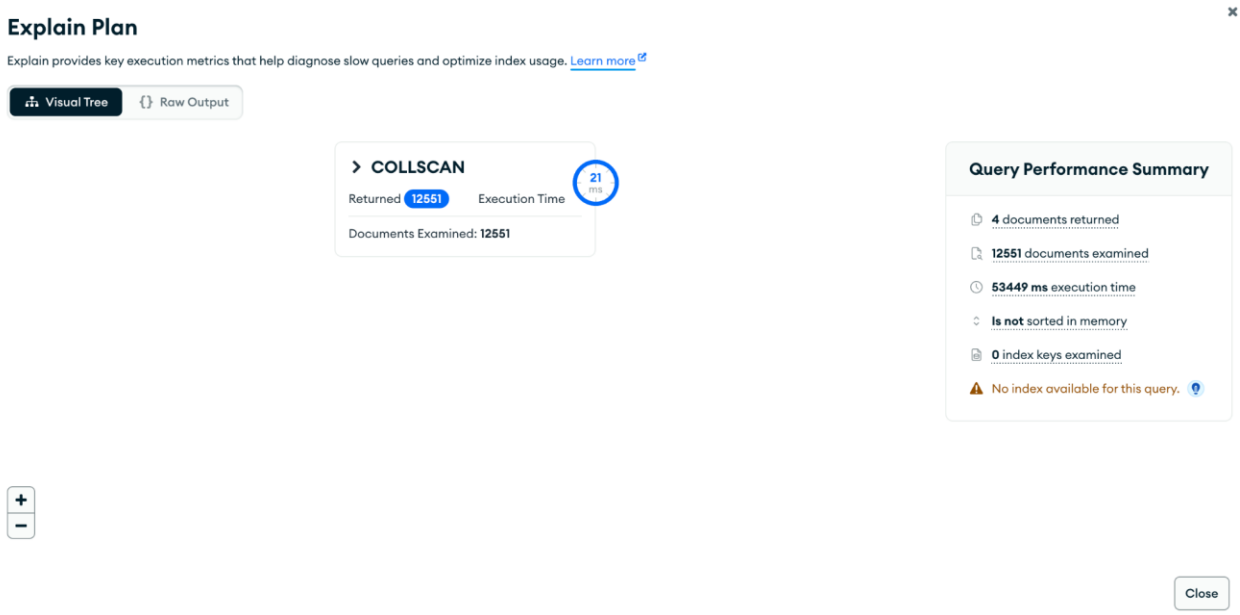
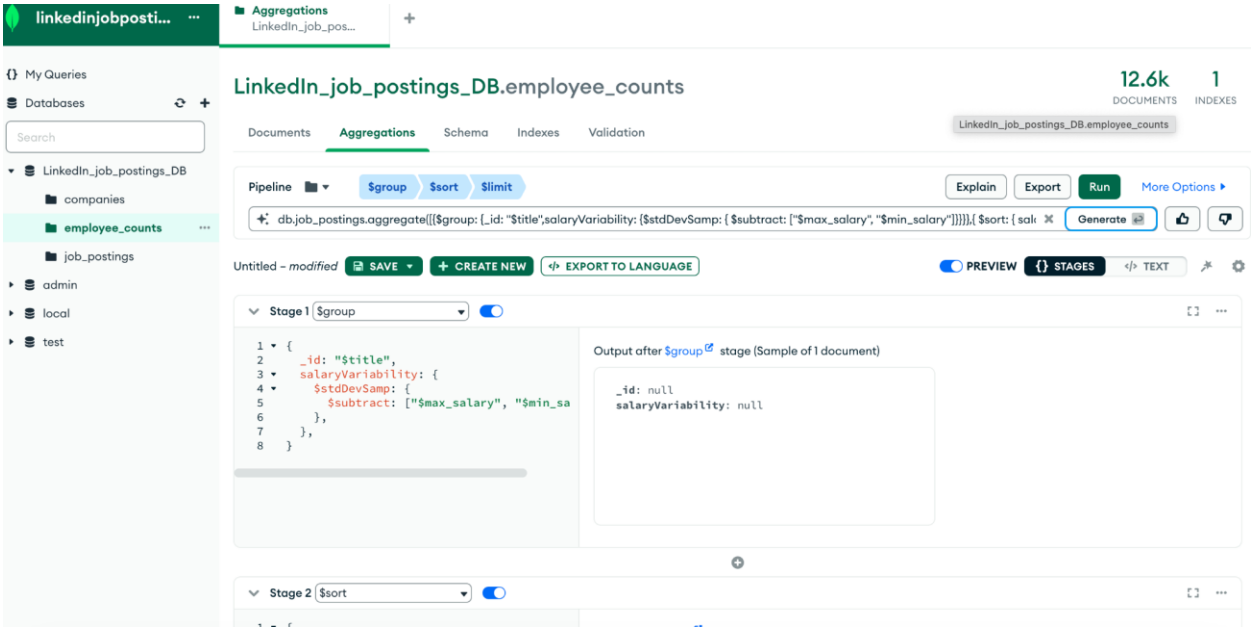
More Options
$lookup: {from: "companies",localField: "company_id",foreignField: "company_id",as: "company"},{$unwind: "$company"},{$match: {$and: [{
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
3 $lookup: {
4 from: "companies",
5 localField: "company_id",
6 foreignField: "company_id",
7 as: "company"
8 }
9 },
10 {
11 $unwind: "$company"
12 },
13 {
14 $match: {
15 $and: [
16 { "company.state": /New York/i },
17 {
18 $or: [
19 { "company.speciality": /data analytics/i },
20 { "company.speciality": /big data/i }
21]
22 }
PIPELINE OUTPUT
Sample of 4 documents
OUTPUT OPTIONS
_id: ObjectId('655837da1b54a1c70b09bcea')
company_id: 14407234
employee_count: 40
follower_count: 9253
time_recorded: 1692817382
time_recorded_ts: 2023-08-23T19:03:02.000+00:00
date_recorded: "2023-08-23"
company: Object
_id: ObjectId('655837fe1b54a1c70b09be86')
company_id: 5084329
employee_count: 279
follower_count: 35001
time_recorded: 1692829708

Query Performance:



4. Highest salary ranges for different roles in (one particular industry.)

Query:
db.job_postings.aggregate([{$group: {_id: "$title",salaryVariability: {$stdDevSamp: { $subtract: ["$max_salary", "$min_salary"]}}}},{ $sort: { salaryVariability: -1 } },{ $limit: 5 }]);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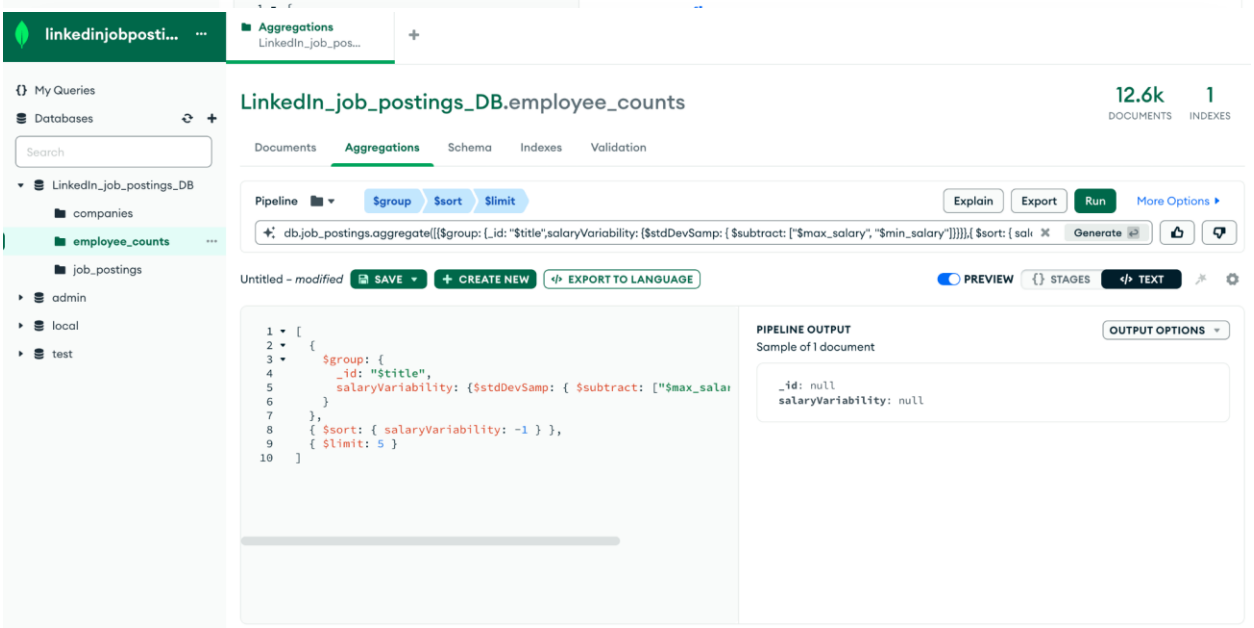
STAGES
TEXT
Stage 1 $group
Output after $group stage (Sample of 1 document)
_id: null
salaryVariability: null
Stage 2 $sort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Untitled – modified
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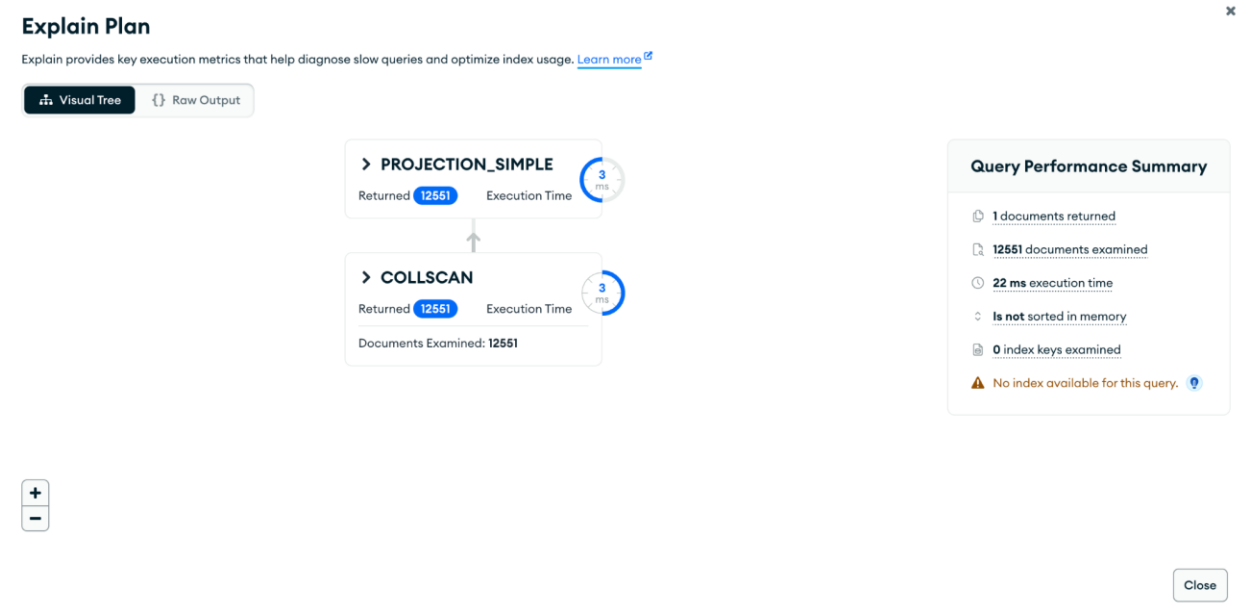
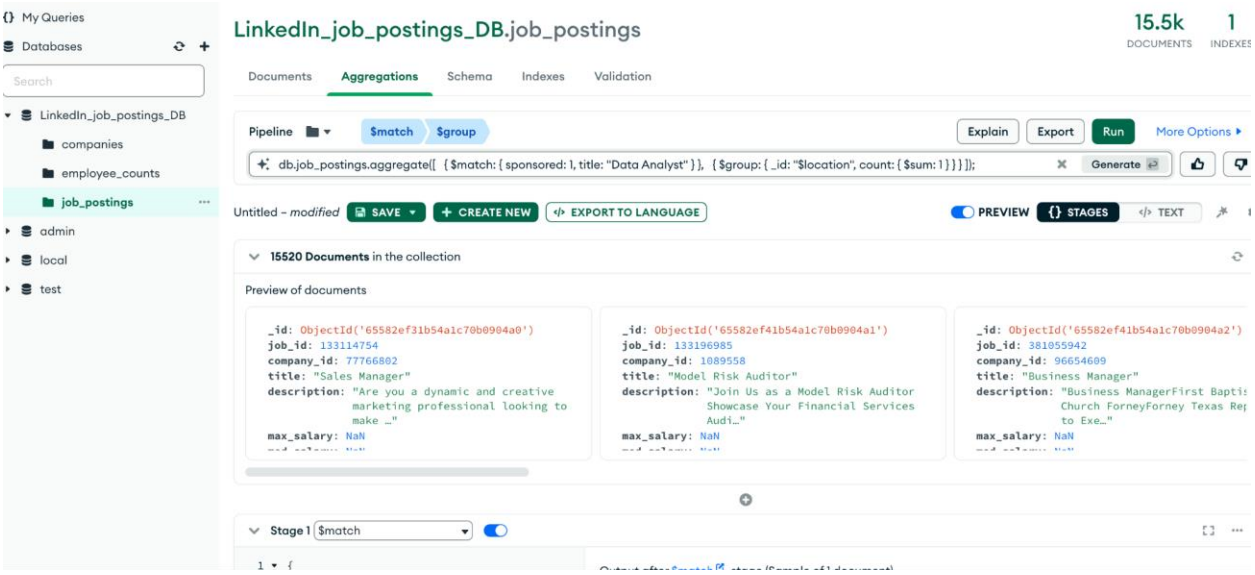
Sample of 1 document
OUTPUT OPTIONS
_id: null
salaryVariability: null

Query Performance:



5. Count of sponsored "Data Analyst" job postings for each location.

Query:
db.job_postings.aggregate([{ $match: { sponsored: 1, title: "Data Analyst" } }, { $group: { _id: "$location", count: { $sum: 1 } } }]);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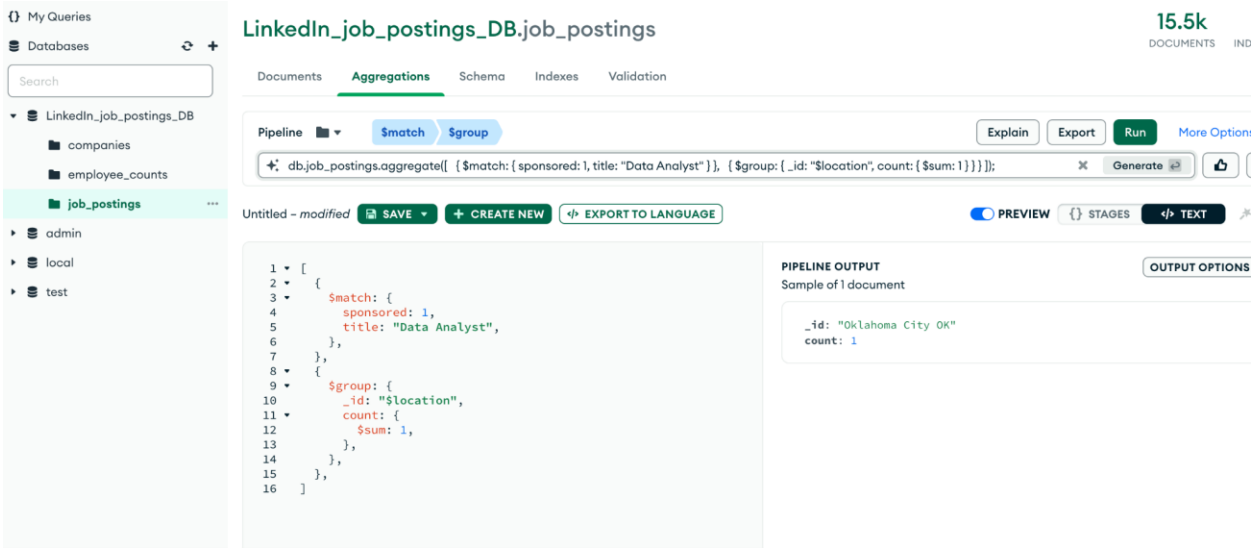
More Options
db.job_postings.aggregate([{ $match: { sponsored: 1, title: "Data Analyst" } }, { $group: { _id: "$location", count: { $sum: 1 } } }]);
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
15520 Documents in the collection
Preview of documents
_id: ObjectId('65582ef31b54a1c70b0904a0')
job_id: 133114754
company_id: 77766802
title: "Sales Manager"
description: "Are you a dynamic and creative marketing professional looking to make …"
max_salary: NaN
_id: ObjectId('65582ef41b54a1c70b0904a1')
job_id: 133196985
company_id: 1089558
title: "Model Risk Auditor"
description: "Join Us as a Model Risk Auditor Showcase Your Financial Services Audi…"
max_salary: NaN
_id: ObjectId('65582ef41b54a1c70b0904a2')
job_id: 381055942
company_id: 96654609
title: "Business Manager"
description: "Business ManagerFirst Baptis Church ForneyForney Texas Rep to Exe…"
max_salary: NaN
Stage 1
$match


My Queries
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job_postings
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LinkedIn_job_postings_DB.job_postings
15.5k
DOCUMENTS
Documents
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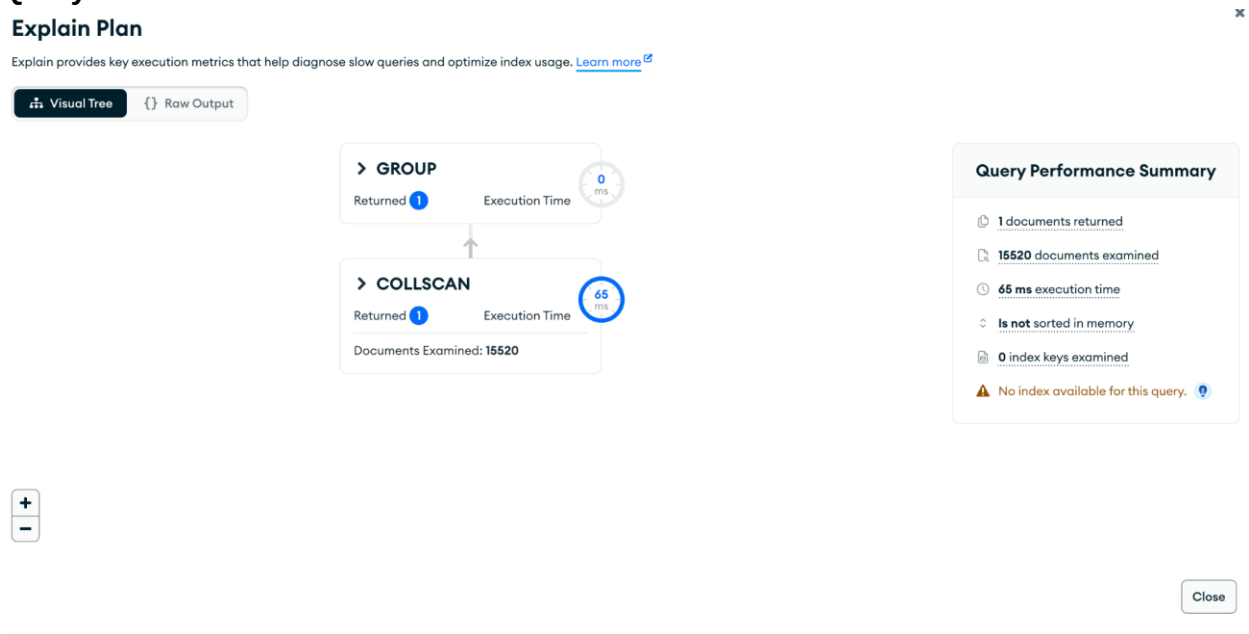
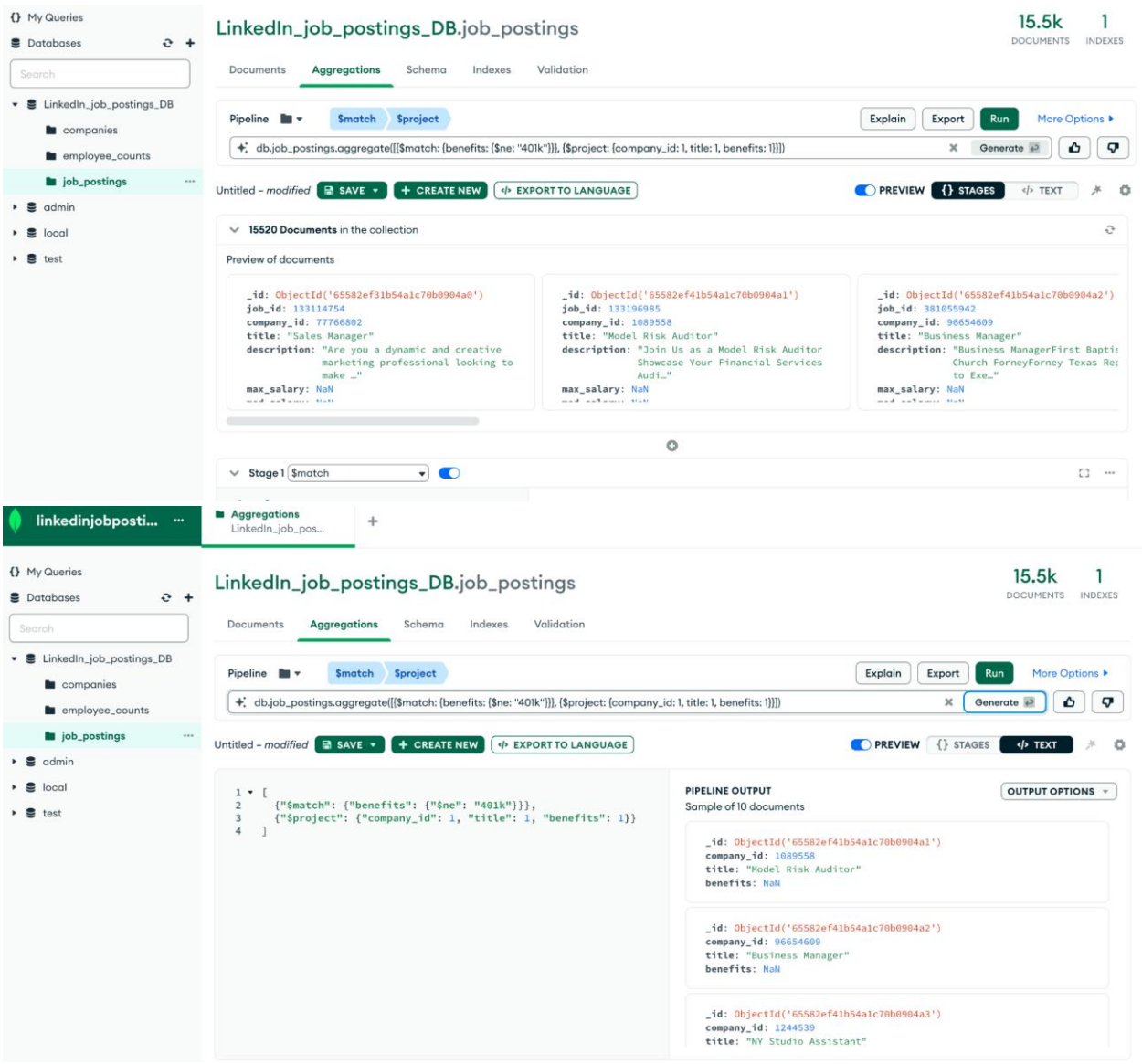
Indexes
Validation
Pipeline
$match
$group
Explain
Export
Run
More Options
db.job_postings.aggregate([{ $match: { sponsored: 1, title: "Data Analyst" } }, { $group: { _id: "$location", count: { $sum: 1 } } }]);
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
[
{
$match: {
sponsored: 1,
title: "Data Analyst",
},
},
{
$group: {
_id: "$location",
count: {
$sum: 1,
},
},
},
]
PIPELINE OUTPUT
Sample of 1 document
OUTPUT OPTIONS
_id: "Oklahoma City OK"
count: 1

Query Performance:



6. Find the companies that don’t offer 401(k) as a benefit.

Query:
db.job_postings.aggregate([{$match: {benefits: {$ne: "401k"}}}, {$project: {company_id: 1, title: 1, benefits: 1}}])


My Queries
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Explain
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Run
More Options
db.job_postings.aggregate([{$match: {benefits: {$ne: "401k"}}}, {$project: {company_id: 1, title: 1, benefits: 1}}])
Generate
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SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
15520 Documents in the collection
Preview of documents
_id: ObjectId('65582ef31b54a1c70b0904a0')
job_id: 133114754
company_id: 77766802
title: "Sales Manager"
description: "Are you a dynamic and creative marketing professional looking to make …"
max_salary: NaN
_id: ObjectId('65582ef41b54a1c70b0904a1')
job_id: 133196985
company_id: 1089558
title: "Model Risk Auditor"
description: "Join Us as a Model Risk Auditor Showcase Your Financial Services Audi…"
max_salary: NaN
_id: ObjectId('65582ef41b54a1c70b0904a2')
job_id: 381055942
company_id: 96654609
title: "Business Manager"
description: "Business ManagerFirst Baptis Church ForneyForney Texas Rep to Exe…"
max_salary: NaN
Stage 1
$match

linkedinjobposti...
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Explain
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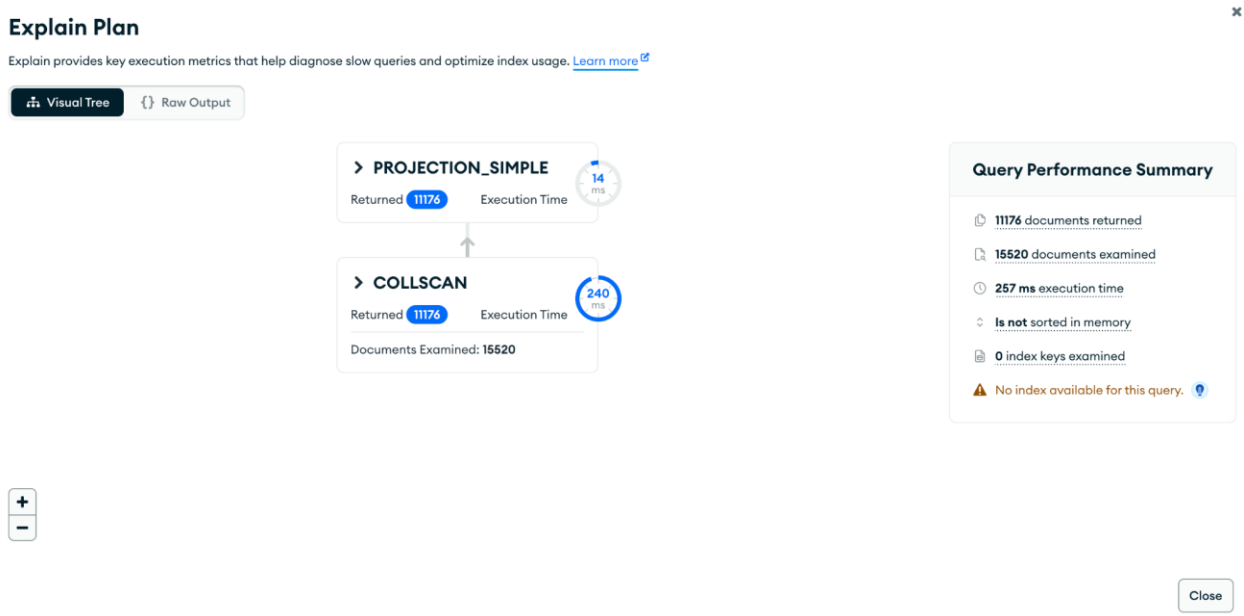
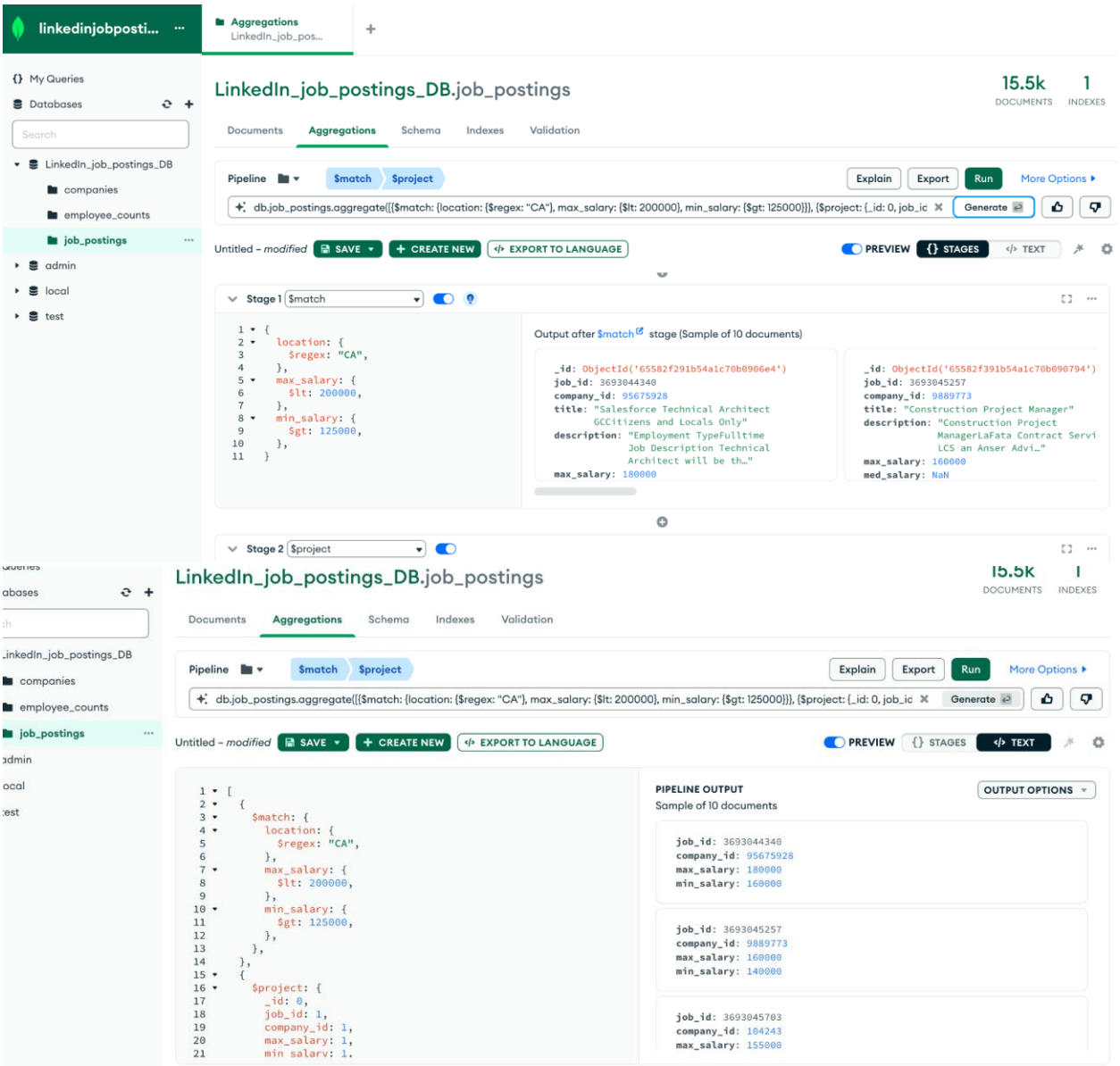
More Options
db.job_postings.aggregate([{$match: {benefits: {$ne: "401k"}}}, {$project: {company_id: 1, title: 1, benefits: 1}}])
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
1 [
2 {"$match": {"benefits": {"$ne": "401k"}}},
3 {"$project": {"company_id": 1, "title": 1, "benefits": 1}}
4]
PIPELINE OUTPUT
OUTPUT OPTIONS
Sample of 10 documents
_id: ObjectId('65582ef41b54a1c70b0904a1')
company_id: 1089558
title: "Model Risk Auditor"
benefits: NaN
_id: ObjectId('65582ef41b54a1c70b0904a2')
company_id: 96654609
title: "Business Manager"
benefits: NaN
_id: ObjectId('65582ef41b54a1c70b0904a3')
company_id: 1244539
title: "NY Studio Assistant"

Query Performance:



7. Find jobs in California where the max salary is greater than 200K and min salary is greater than 125K

Query:
db.job_postings.aggregate([{$match: {location: {$regex: "CA"}, max_salary: {$lt: 200000}, min_salary: {$gt: 125000}}}, {$project: {_id: 0, job_id: 1, company_id: 1, max_salary: 1, min_salary: 1}}])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More Options
db.job_postings.aggregate([{$match: {location: {$regex: "CA"}, max_salary: {$lt: 200000}, min_salary: {$gt: 125000}}}, {$project: {_id: 0, job_ic
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
Stage 1 $match
{
location: {
$regex: "CA",
},
max_salary: {
$lt: 200000,
},
min_salary: {
$gt: 125000,
},
}
Output after $match stage (Sample of 10 documents)
_id: ObjectId('65582f291b54a1c70b0906e4')
job_id: 3693044340
company_id: 95675928
title: "Salesforce Technical Architect
GCCitizens and Locals Only"
description: "Employment TypeFulltime
Job Description Technical
Architect will be th…"
max_salary: 180000
_id: ObjectId('65582f391b54a1c70b090794')
job_id: 3693045257
company_id: 9889773
title: "Construction Project Manager"
description: "Construction Project
ManagerLaFata Contract Servi
LCS an Anser Advi…"
max_salary: 160000
med_salary: NaN
Stage 2 $project
LinkedIn_job_postings_DB.job_postings
15.5k
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More Options
db.job_postings.aggregate([{$match: {location: {$regex: "CA"}, max_salary: {$lt: 200000}, min_salary: {$gt: 125000}}}, {$project: {_id: 0, job_ic
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
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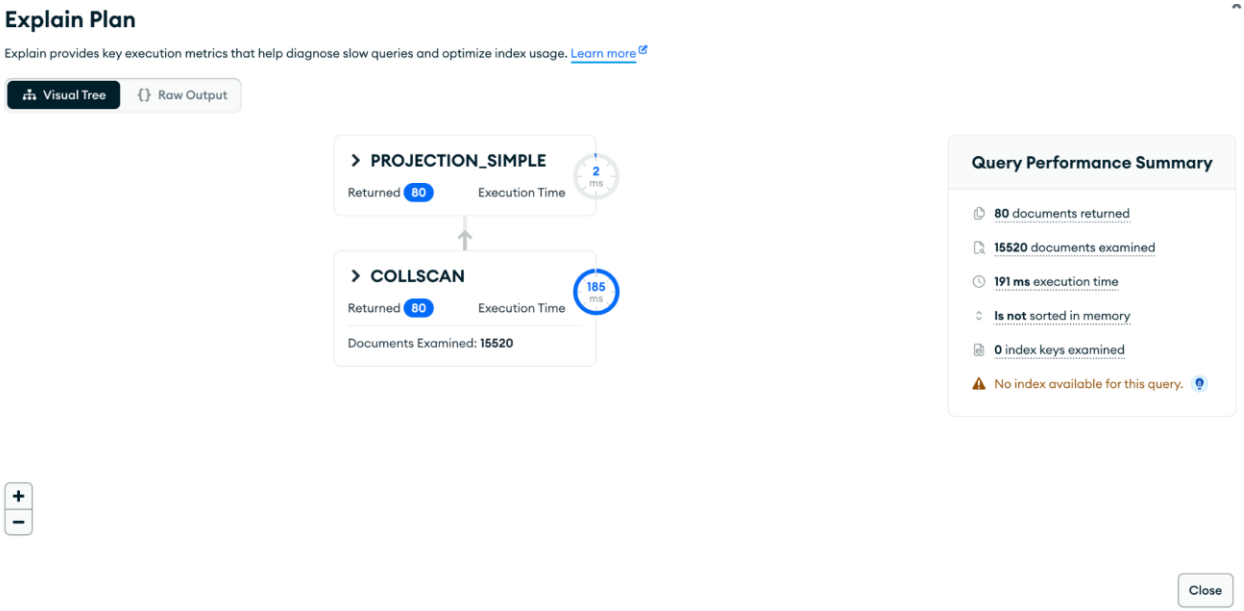
STAGES
TEXT
[
{
$match: {
location: {
$regex: "CA",
},
max_salary: {
$lt: 200000,
},
min_salary: {
$gt: 125000,
},
},
},
{
$project: {
_id: 0,
job_id: 1,
company_id: 1,
max_salary: 1,
min_salary: 1,
PIPELINE OUTPUT
Sample of 10 documents
OUTPUT OPTIONS
job_id: 3693044340
company_id: 95675928
max_salary: 180000
min_salary: 160000
job_id: 3693045257
company_id: 9889773
max_salary: 160000
min_salary: 140000
job_id: 3693045703
company_id: 104243
max_salary: 155000

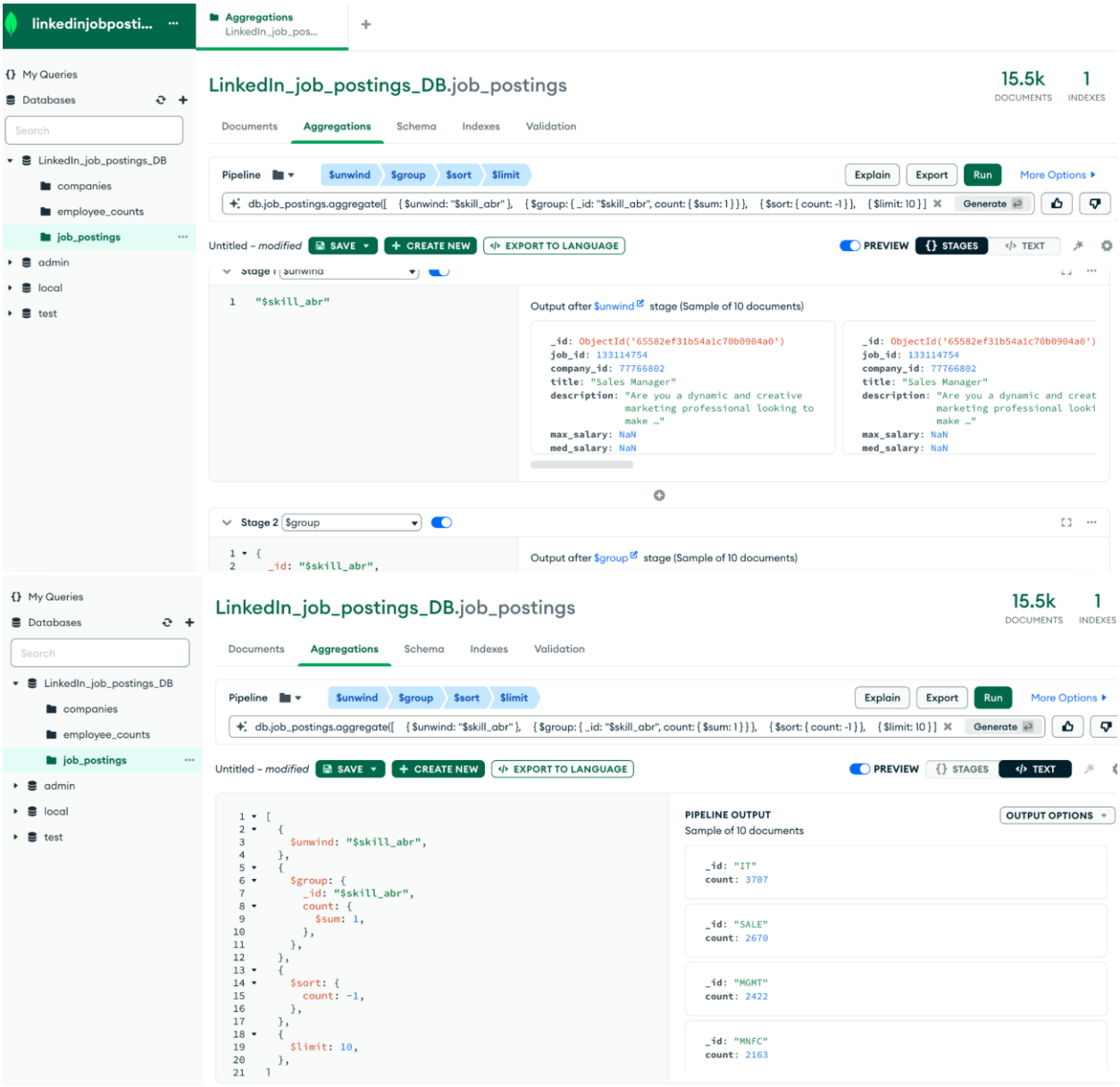
Query Performance:



8. Companies with most common job skills.

Query:

db.job_postings.aggregate([{ $unwind: "$skill_abr" }, { $group: { _id: "$skill_abr", count: { $sum: 1 } } }, { $sort: { count: -1 } }, { $limit: 10 }]);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Aggregations
LinkedIn_job_pos...
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employee_counts
job_postings
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LinkedIn_job_postings_DB.job_postings
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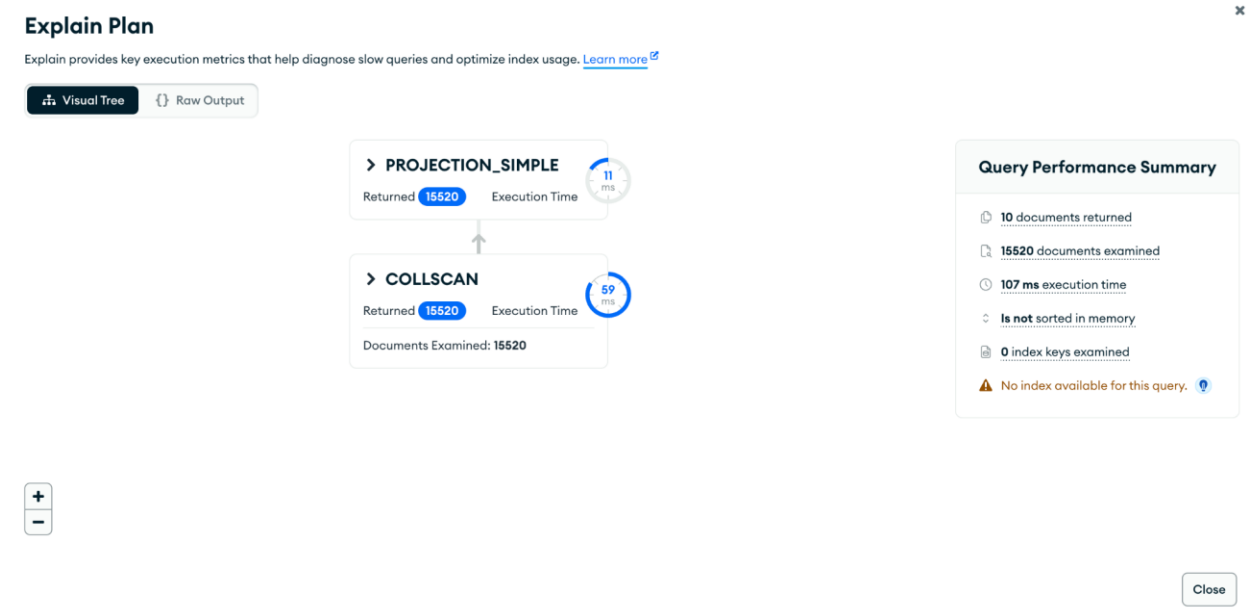
Indexes
Validation
Pipeline
$unwind
$group
$sort
$limit
Explain
Export
Run
More Options
db.job_postings.aggregate([{ $unwind: "$skill_abr" }, { $group: { _id: "$skill_abr", count: { $sum: 1 } } }, { $sort: { count: -1 } }, { $limit: 10 }]
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
Stage 1 $unwind
1 "$skill_abr"
Output after $unwind stage (Sample of 10 documents)
_id: ObjectId('65582ef31b54a1c70b0904a0')
job_id: 133114754
company_id: 77766802
title: "Sales Manager"
description: "Are you a dynamic and creative marketing professional looking to make …"
max_salary: NaN
med_salary: NaN
Stage 2 $group
1 {
2 _id: "$skill_abr",
Output after $group stage (Sample of 10 documents)

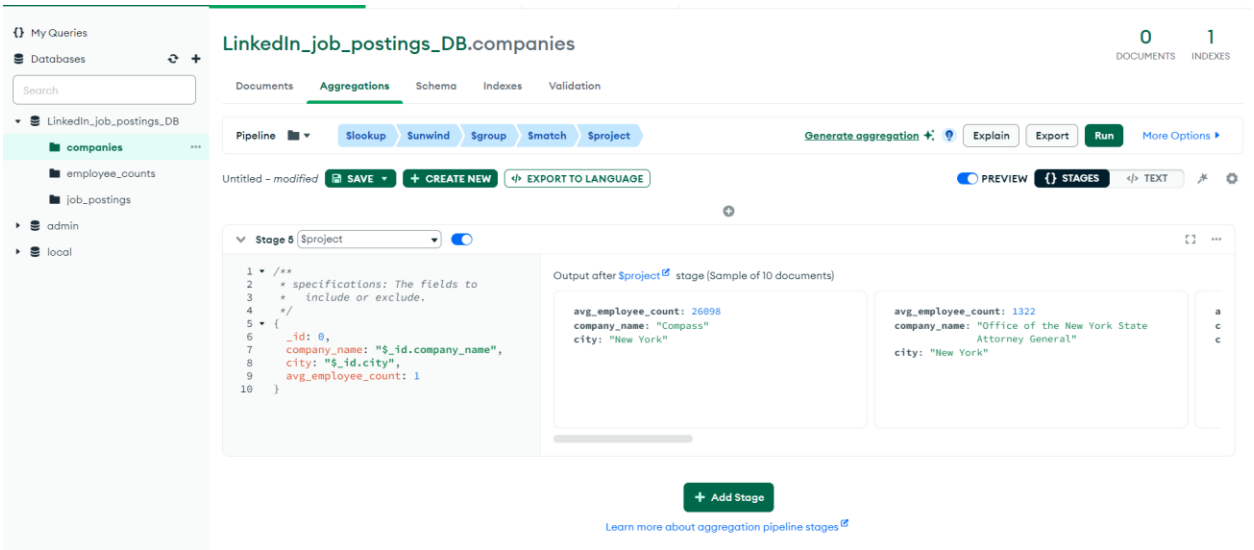
My Queries
Databases
Search
LinkedIn_job_postings_DB
companies
employee_counts
job_postings
admin
local
test
LinkedIn_job_postings_DB.job_postings
15.5k
DOCUMENTS
1
INDEXES
Documents
Aggregations
Schema
Indexes
Validation
Pipeline
$unwind
$group
$sort
$limit
Explain
Export
Run
More Options
db.job_postings.aggregate([{ $unwind: "$skill_abr" }, { $group: { _id: "$skill_abr", count: { $sum: 1 } } }, { $sort: { count: -1 } }, { $limit: 10 }]
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
[
{
$unwind: "$skill_abr",
},
{
$group: {
_id: "$skill_abr",
count: {
$sum: 1,
},
},
},
{
$sort: {
count: -1,
},
},
{
$limit: 10,
},
]
PIPELINE OUTPUT
Sample of 10 documents
OUTPUT OPTIONS
_id: "IT"
count: 3707
_id: "SALE"
count: 2670
_id: "MGMT"
count: 2422
_id: "MNFC"
count: 2163

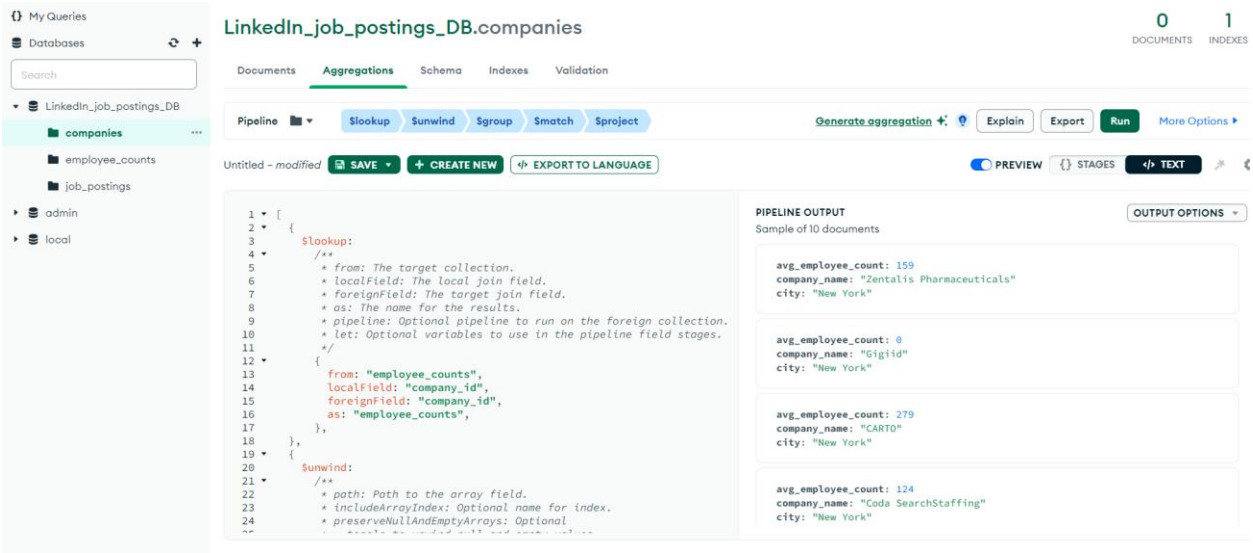
Query Performance:



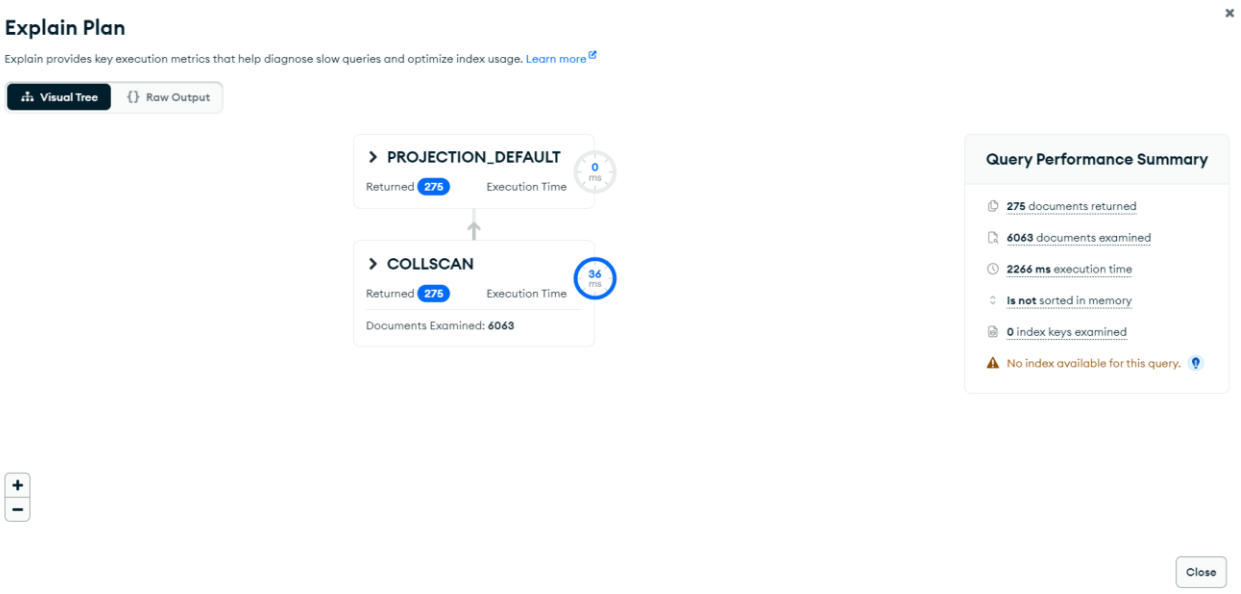
9. List all companies in a specific city (ex: New York) and their average employee counts.

Query:
db.getCollection('companies').aggregate([{$lookup: {from: 'employee_counts', localField: 'company_id', foreignField: 'company_id', as: 'employee_counts'}}, {$unwind: {path: '$employee_counts', includeArrayIndex: 'string', preserveNullAndEmptyArrays: true}}, {$group: {_id: {company_name: '$company_name', city: '$city'}, avg_employee_count: {$avg: '$employee_counts.employee_count'}}}, {$match: {'_id.city': 'New York'}}, {$project: {_id: 0, company_name: '$_id.company_name', city: '$_id.city', avg_employee_count: 1}}]);



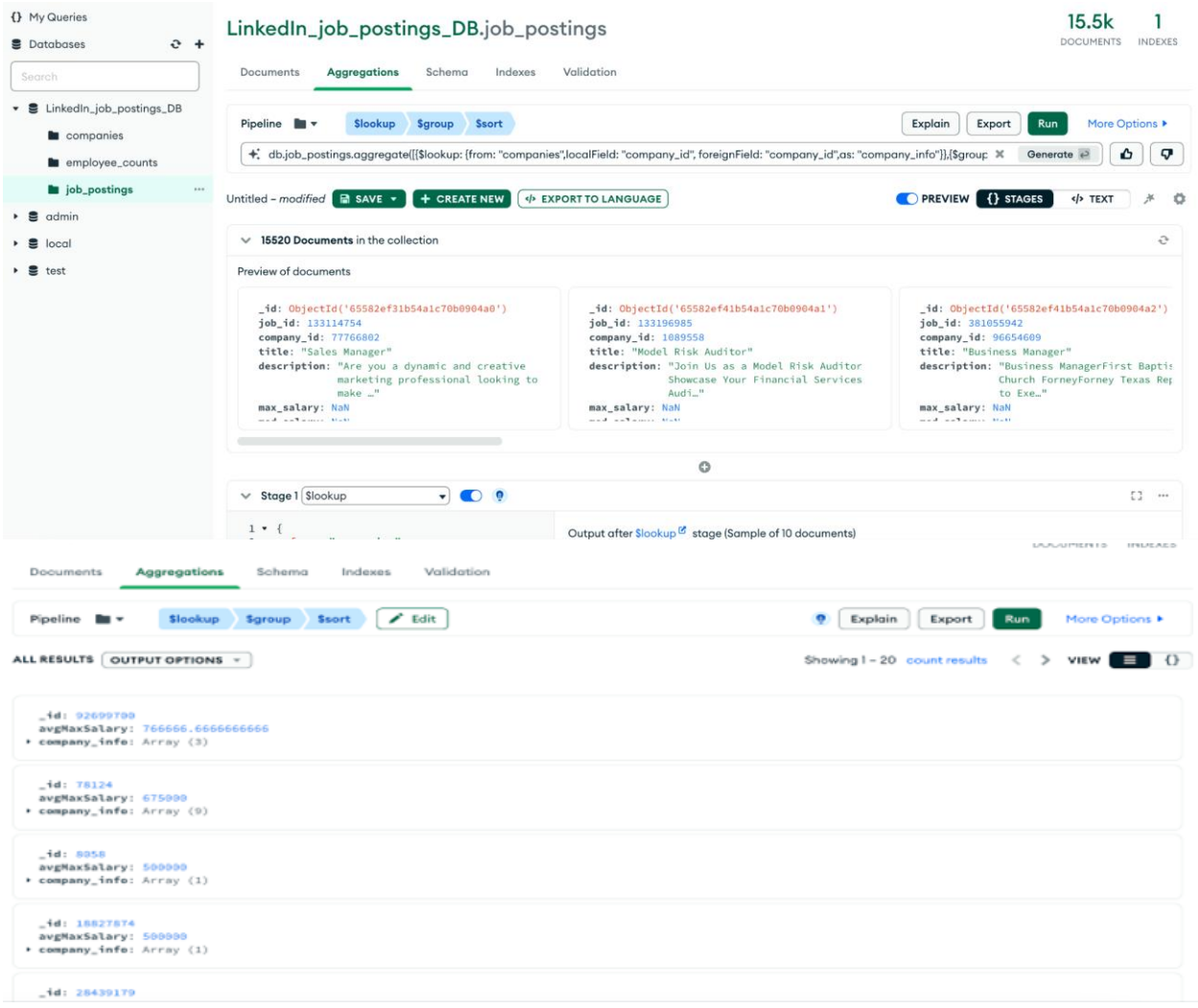


Query Performance:

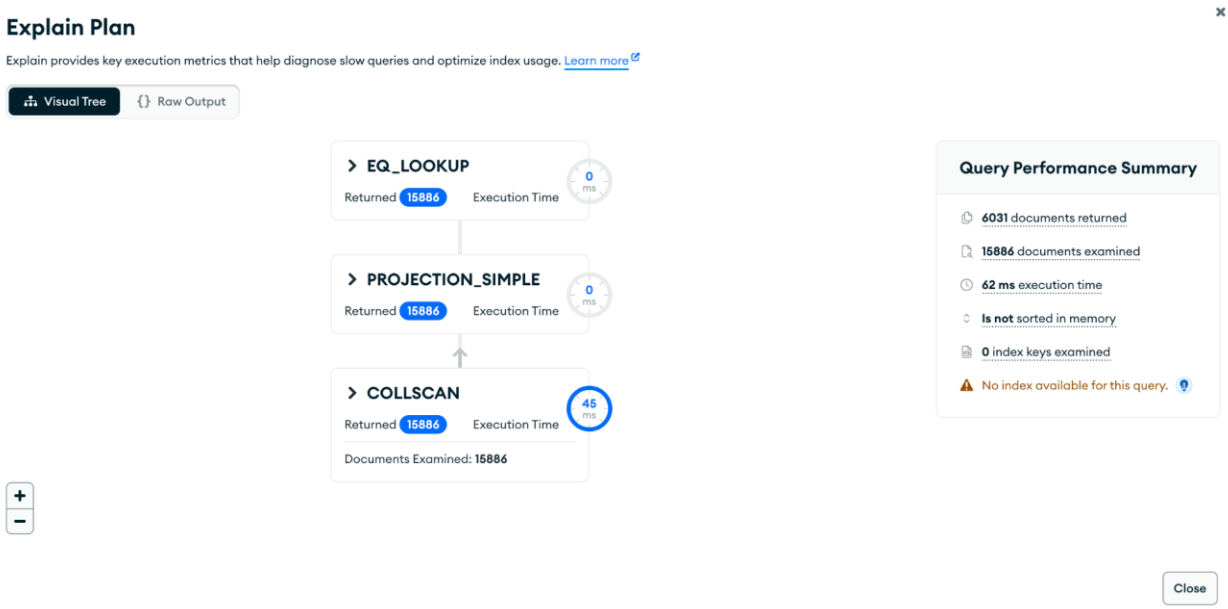


10. Identifying companies with the highest average maximum salaries for job postings.

Query:
db.job_postings.aggregate([{$lookup: {from: "companies",localField: "company_id", foreignField: "company_id",as: "company_info"}},{$group: {_id: "$company_id",avgMaxSalary: {$avg: {$toDouble: {$ifNull: ["$max_salary", 0]}}},company_info: {$push: "$company_info"}}},{$sort: {avgMaxSalary: -1}}]);

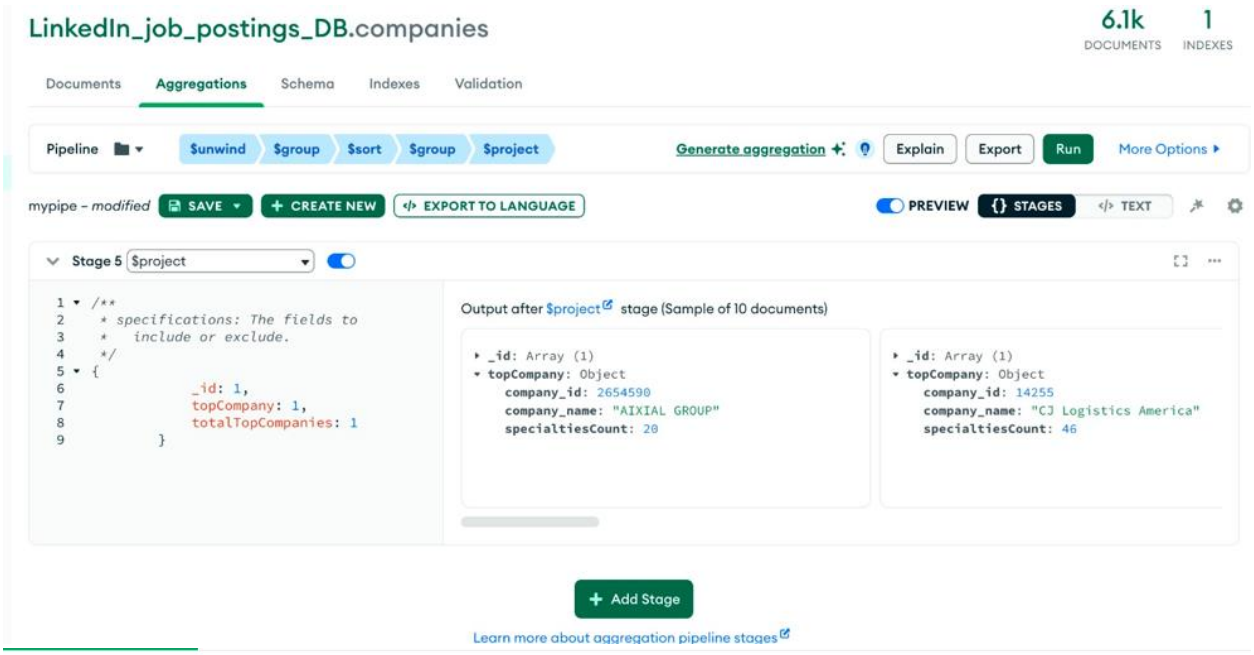

My Queries
Databases
Search
LinkedIn_job_postings_DB
companies
employee_counts
job_postings
admin
local
test
LinkedIn_job_postings_DB.job_postings
15.5k
DOCUMENTS
1
INDEXES
Documents
Aggregations
Schema
Indexes
Validation
Pipeline
$lookup
$group
$sort
Explain
Export
Run
More Options
db.job_postings.aggregate([{$lookup: {from: "companies",localField: "company_id", foreignField: "company_id",as: "company_info"}},{$group:
Generate
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
15520 Documents in the collection
Preview of documents
_id: ObjectId('65582ef31b54a1c70b0904a0')
job_id: 133114754
company_id: 77766802
title: "Sales Manager"
description: "Are you a dynamic and creative marketing professional looking to make …"
max_salary: NaN
_id: ObjectId('65582ef41b54a1c70b0904a1')
job_id: 133196985
company_id: 1089558
title: "Model Risk Auditor"
description: "Join Us as a Model Risk Auditor Showcase Your Financial Services Audi…"
max_salary: NaN
_id: ObjectId('65582ef41b54a1c70b0904a2')
job_id: 381055942
company_id: 96654609
title: "Business Manager"
description: "Business ManagerFirst Baptis Church ForneyForney Texas Rep to Exe…"
max_salary: NaN
Stage 1
$lookup
1 ▾ {
Output after $lookup stage (Sample of 10 documents)

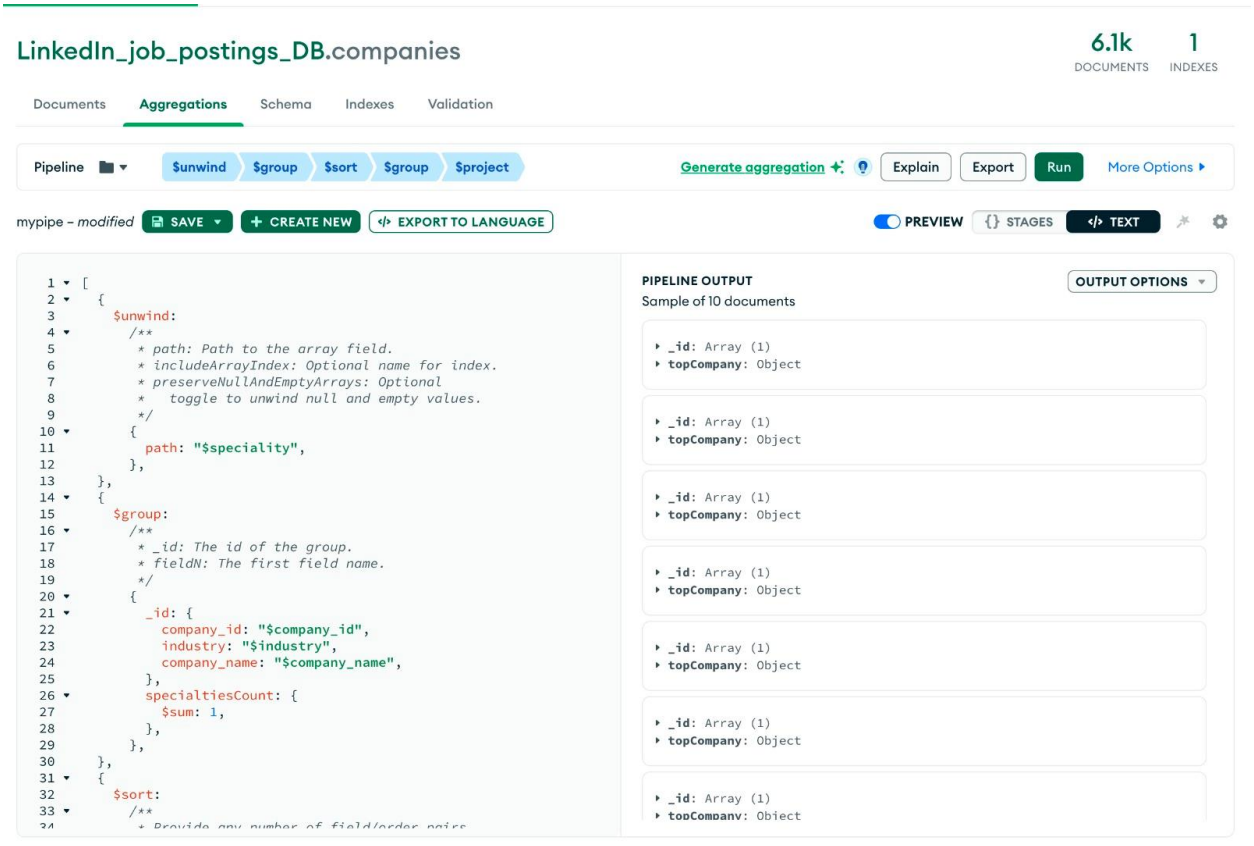
Documents
Aggregations
Schema
Indexes
Validation
Pipeline
$lookup
$group
$sort
Edit
Explain
Export
Run
More Options
ALL RESULTS
OUTPUT OPTIONS
Showing 1 – 20
count results
VIEW
_id: 92699700
avgMaxSalary: 766666.6666666666
company_info: Array (3)
_id: 78124
avgMaxSalary: 675000
company_info: Array (9)
_id: 8058
avgMaxSalary: 500000
company_info: Array (1)
_id: 18827874
avgMaxSalary: 500000
company_info: Array (1)
_id: 28439179



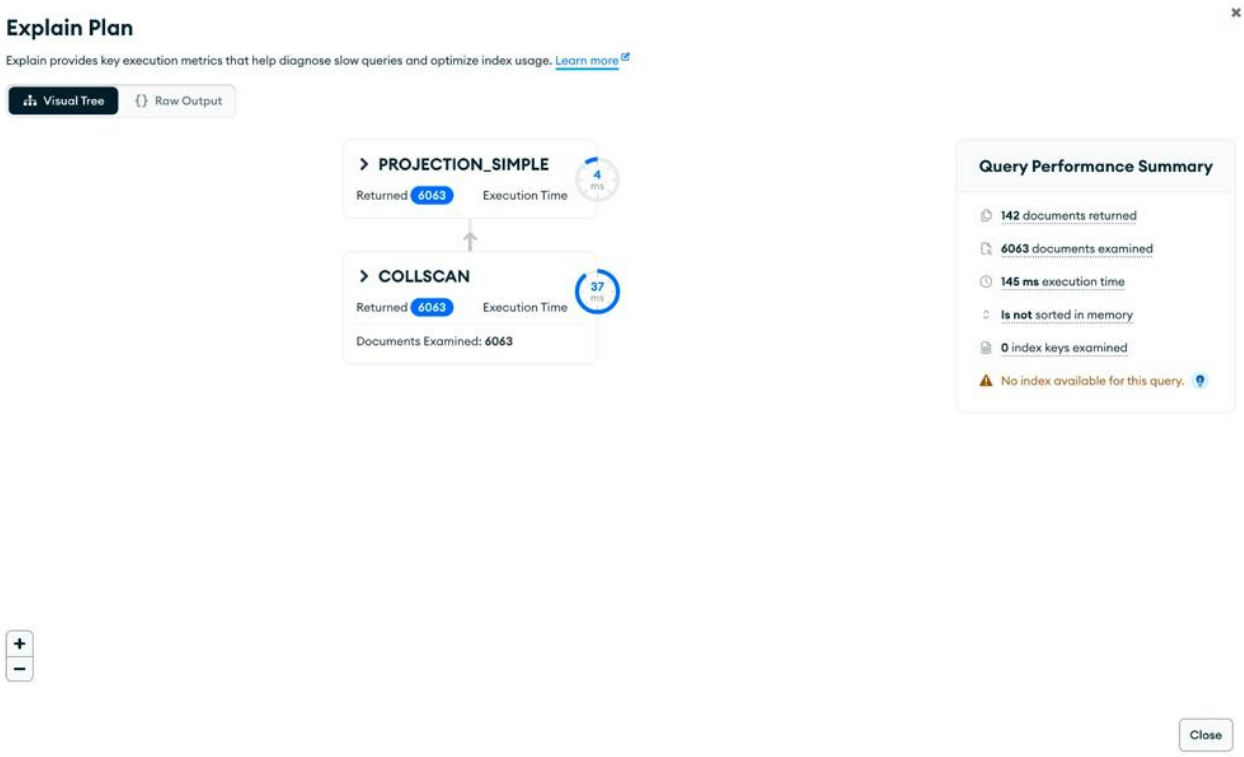
11. Which companies have the highest number of specialties by industry?

Query:
db.companies.aggregate([{$unwind:"$speciality"},{$group:{_id:{company_id:"$company_id",industry:"$industry",company_name:"$company_name"},specialtiesCount:{$sum:1}}},{$sort:{"_id.industry":1,specialtiesCount:-1}},{$group:{_id:"$_id.industry",topCompany:{$first:{company_id:"$_id.company_id",company_name:"$_id.company_name",specialtiesCount:"$specialtiesCount"}}}},{$project:{_id:1,topCompany:1}}]);

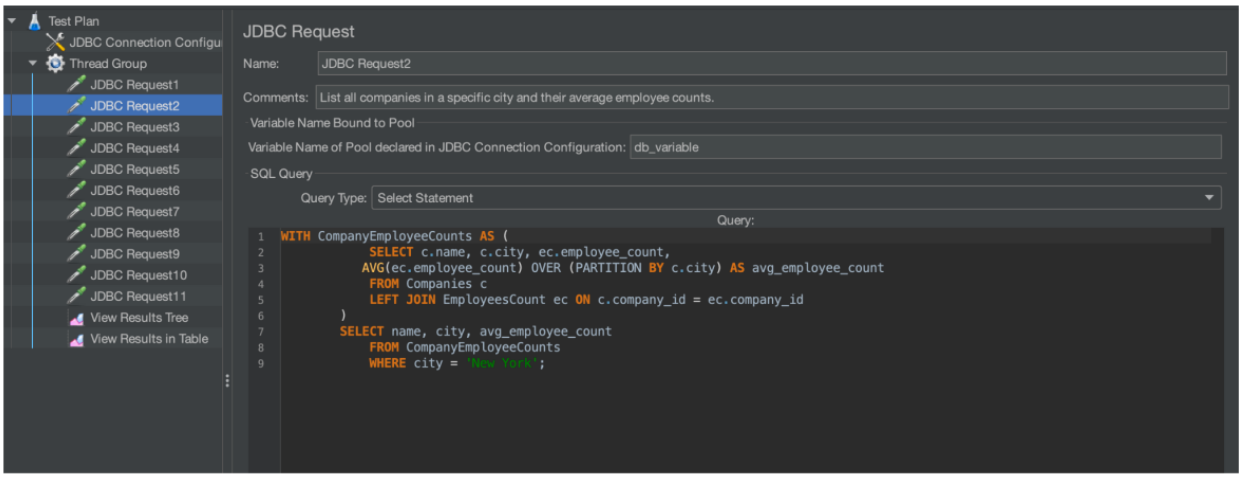

LinkedIn_job_postings_DB.companies
6.1k
DOCUMENTS
1
INDEXES
Documents
Aggregations
Schema
Indexes
Validation
Pipeline
$unwind
$group
$sort
$group
$project
Generate aggregation
Explain
Export
Run
More Options
mypipe – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
Stage 5 $project
1 /**
2 * specifications: The fields to
3 * include or exclude.
4 */
5 {
6 _id: 1,
7 topCompany: 1,
8 totalTopCompanies: 1
9 }
Output after $project stage (Sample of 10 documents)
_id: Array (1)
topCompany: Object
company_id: 2654590
company_name: "AIXIAL GROUP"
specialtiesCount: 20
_id: Array (1)
topCompany: Object
company_id: 14255
company_name: "CJ Logistics America"
specialtiesCount: 46
Add Stage
Learn more about aggregation pipeline stages

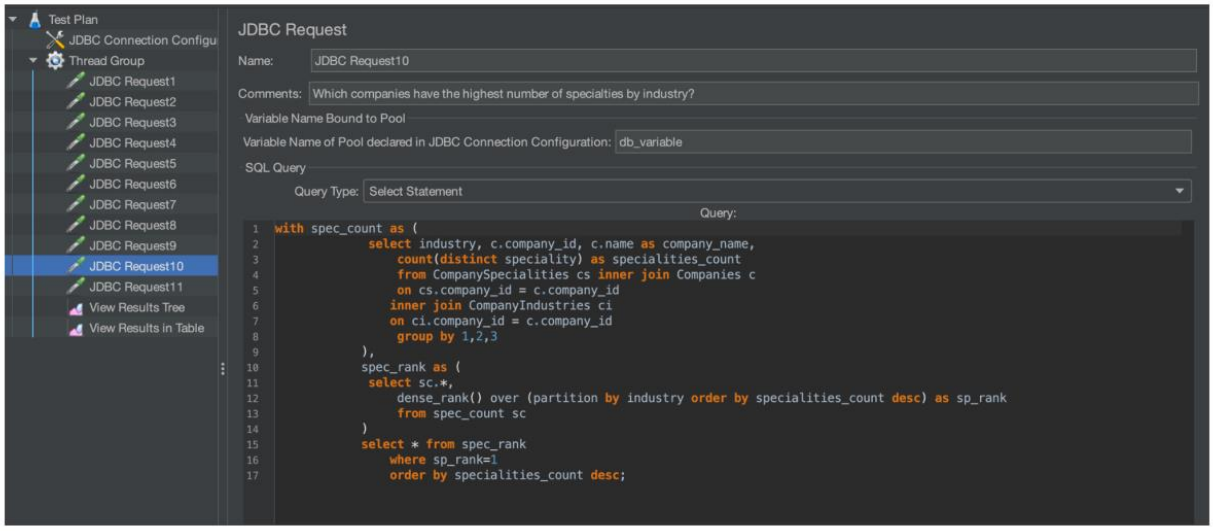

LinkedIn_job_postings_DB.companies
6.1k
DOCUMENTS
1
INDEXES
Documents
Aggregations
Schema
Indexes
Validation
Pipeline
$unwind
$group
$sort
$group
$project
Generate aggregation
Explain
Export
Run
More Options
mypipe – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
1 [
2 {
3 $unwind:
4 /**
5 * path: Path to the array field.
6 * includeArrayIndex: Optional name for index.
7 * preserveNullAndEmptyArrays: Optional
8 * toggle to unwind null and empty values.
9 */
10 {
11 path: "$speciality",
12 },
13 },
14 {
15 $group:
16 /**
17 * _id: The id of the group.
18 * fieldN: The first field name.
19 */
20 {
21 _id: {
22 company_id: "$company_id",
23 industry: "$industry",
24 company_name: "$company_name",
25 },
26 specialtiesCount: {
27 $sum: 1,
28 },
29 },
30 },
31 {
32 $sort:
33 /**
PIPELINE OUTPUT
Sample of 10 documents
OUTPUT OPTIONS
_id: Array (1)
topCompany: Object
_id: Array (1)
topCompany: Object
_id: Array (1)
topCompany: Object
_id: Array (1)
topCompany: Object
_id: Array (1)
topCompany: Object
_id: Array (1)
topCompany: Object
_id: Array (1)

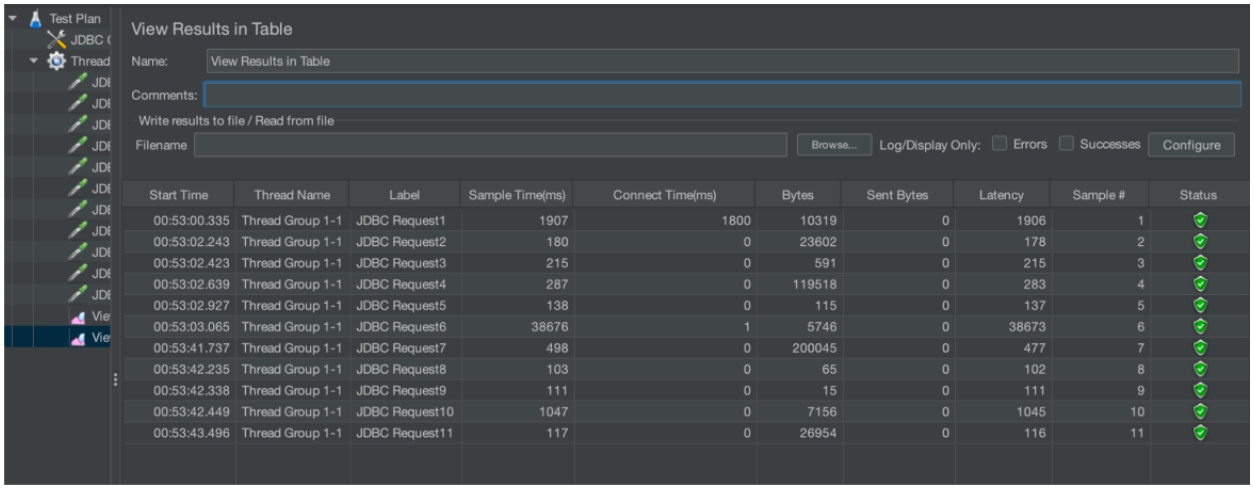
Query Performance:



MySQL Queries for comparing the performance measurements







We have compared the performance of the JDBC Request 2 and JDBC Request 10 from MySQL with MongoDB. We found that the performance is better in MongoDB. Below is the table with the execution of all the queries

	Functional Requirements	Execution Time (milliseconds)
1	List of jobs that have 'analyst' in the title are full-time and based in San Jose, CA	198
2	Companies with the highest increase in follower count (top 5)	40

3	List of jobs by companies that have ‘big data’ or ‘data analytics’ as a specialty in NY state ordered by descending median salary	21
4	Highest salary ranges for different roles in (one particular industry)	6
5	Count of sponsored "Data Analyst" job postings for each location	65
6	Find the companies that don’t offer 401(k) as a benefit.	254
7	Find jobs in California where the max salary is greater than 200K and min salary is greater than 125K	187
8	Companies with most common job skills	70
9	List all companies in a specific city (ex: New York) and their average employee counts	36 (MySQL Query Performance: 180)
10	Identifying companies with the highest average maximum salaries for job postings.	45
11	Which companies have the highest number of specialties by industry?	41 (MySQL Query Performance: 1047)

Group Members

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