Aggregation Queries – CareerCradle

# Total Applications per Job

db.applications.aggregate([  
 {  
 $group: {  
 \_id: "$jobId",  
 totalApplications: { $sum: 1 }  
 }  
 }  
])

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Description automatically generated

# Shortlisted Count per Job

db.applications.aggregate([  
 { $match: { status: "Shortlisted" } },  
 {  
 $group: {  
 \_id: "$jobId",  
 shortlistedCount: { $sum: 1 }  
 }  
 }  
])

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# Interview Scheduled Count per Job

db.applications.aggregate([  
 { $match: { interviewScheduled: true } },  
 {  
 $group: {  
 \_id: "$jobId",  
 interviews: { $sum: 1 }  
 }  
 }  
])

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# Average Test Score per Job

db.applications.aggregate([  
 {  
 $group: {  
 \_id: "$jobId",  
 averageTestScore: { $avg: "$testScore" }  
 }  
 }  
])

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# Views and Applications with Conversion Rate

db.analytics.aggregate([  
 {  
 $project: {  
 jobId: 1,  
 views: 1,  
 applications: 1,  
 conversionRate: {  
 $cond: [  
 { $eq: ["$views", 0] },  
 0,  
 { $multiply: [{ $divide: ["$applications", "$views"] }, 100] }  
 ]  
 }  
 }  
 }  
])

# Top 5 Jobs with Most Applications

db.applications.aggregate([  
 {  
 $group: {  
 \_id: "$jobId",  
 applicationCount: { $sum: 1 }  
 }  
 },  
 { $sort: { applicationCount: -1 } },  
 { $limit: 5 }  
])

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# Total Hires per Employer

db.analytics.aggregate([  
 {  
 $group: {  
 \_id: "$employerId",  
 totalHired: { $sum: "$hired" }  
 }  
 }  
])

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# Basic Job Metadata View

db.analytics.aggregate([  
 {  
 $project: {  
 jobId: 1,  
 employerId: 1,  
 generatedAt: 1  
 }  
 }  
])

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# Join Job Title with Analytics

db.analytics.aggregate([  
 {  
 $lookup: {  
 from: "jobs",  
 localField: "jobId",  
 foreignField: "\_id",  
 as: "jobDetails"  
 }  
 },  
 { $unwind: "$jobDetails" },  
 {  
 $project: {  
 jobId: 1,  
 employerId: 1,  
 jobTitle: "$jobDetails.title",  
 generatedAt: 1  
 }  
 }  
])

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# Total Applications by Job Seeker

db.applications.aggregate([  
 {  
 $group: {  
 \_id: "$jobSeekerId",  
 totalApplications: { $sum: 1 }  
 }  
 }  
])

A screenshot of a computer

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