Assignment Nosql

1. Count the total number of records in the table. **(5 points)**

db.EmployeeAttrition.count();

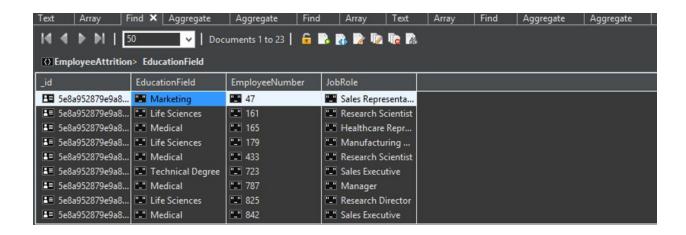| Text ✕	Array	Find	Aggregate	Aggregate
1 1470				
2				

2.How many unique JOBROLE are there in the dataset. **(5 points)**

db.EmployeeAttrition.distinct('JobRole');

Text	Array	Find	Aggregate	Aggregate	Find	Array ✕

[] Array

[Index]	
0	Healthcare Repr...
1	Human Resources
2	Laboratory Tech...
3	Manager
4	Manufacturing ...
5	Research Director
6	Research Scientist
7	Sales Executive
8	Sales Representa...

3.Find EMPLOYEENUMBER, EDUCATIONFIELD, JOBROLE for all the employees whose AGE is greater than equal to 50 and ATTRITION is YES (10 points)

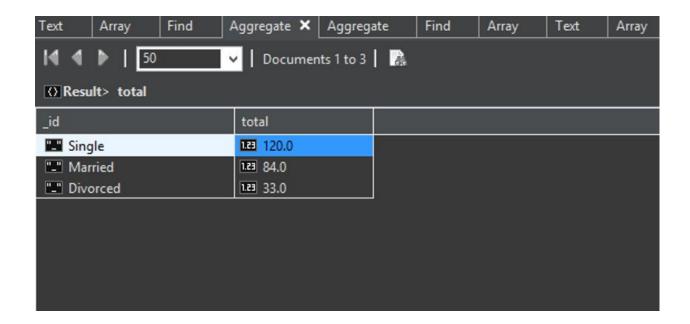db.EmployeeAttrition.find({$and
:[{"Age":{$gte:"50"}},{"Attrition":"Yes"}]},{"EmployeeNumber":1,"EducationField":1,"JobRole":1});

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<> EmployeeAttrition> EducationField

_id	EducationField	EmployeeNumber	JobRole
📇 5e8a952879e9a8...	🖼 Marketing	🖥 47	🖥 Sales Representa...
📇 5e8a952879e9a8...	🖼 Life Sciences	🖥 161	🖥 Research Scientist
📇 5e8a952879e9a8...	🖼 Medical	🖥 165	🖥 Healthcare Repr...
📇 5e8a952879e9a8...	🖼 Life Sciences	🖥 179	🖥 Manufacturing ...
📇 5e8a952879e9a8...	🖼 Medical	🖥 433	🖥 Research Scientist
📇 5e8a952879e9a8...	🖼 Technical Degree	🖥 723	🖥 Sales Executive
📇 5e8a952879e9a8...	🖼 Medical	🖥 787	🖥 Manager
📇 5e8a952879e9a8...	🖼 Life Sciences	🖥 825	🖥 Research Director
📇 5e8a952879e9a8...	🖼 Medical	🖥 842	🖥 Sales Executive

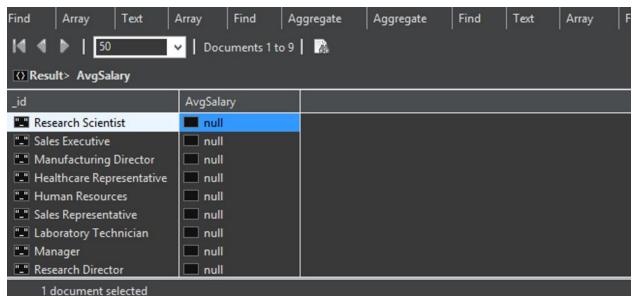**4.Count the different MARITALSTATUS when ATTRITION is YES in the dataset. Arrange the count in descending order (Hint: aggregate function) (10 points)**

db.EmployeeAttrition.aggregate({$match:{Attrition:'Yes'}},{$group:{_id:"$MaritalStatus",total:{$sum:1}}},{$sort:{total:-1}});

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<> Result> total

_id	total
🖥 Single	1.23 120.0
🖥 Married	1.23 84.0
🖥 Divorced	1.23 33.0

5.For each JOBROLE, find the average MONTHLYINCOME. Arrange the output in descending order (Hint: Use aggregate function) (10 points)

db.EmployeeAttrition.aggregate([{$group : {_id : "$JobRole", AvgSalary : {$avg : "MonthlyIncome"}}}]);

_id	AvgSalary	
🖥 Research Scientist	⬛ null	
🖥 Sales Executive	⬛ null	
🖥 Manufacturing Director	⬛ null	
🖥 Healthcare Representative	⬛ null	
🖥 Human Resources	⬛ null	
🖥 Sales Representative	⬛ null	
🖥 Laboratory Technician	⬛ null	
🖥 Manager	⬛ null	
🖥 Research Director	⬛ null	

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6.For all the employees having AGE less than equal to 18, sort the DEPARTMENT from A to Z first and then EMPLOYEENUMBER in ascending order. Print only DEPARTMENT and EMPLOYEENUMBER in the output. (Hint: Use sort function only)   (10 points)

db.EmployeeAttrition.find({"Age":{$lte : "18"}},{"EmployeeNumber" : 1,"Department":1}).sort({"Department":1},{"EmployeeNumber":1})

_id	Department	EmployeeNumber
🖽 5e8a952879e9a8...	🖥 Research & Dev...	🖥 405
🖽 5e8a952879e9a8...	🖥 Research & Dev...	🖥 1012
🖽 5e8a952879e9a8...	🖥 Research & Dev...	🖥 1156
🖽 5e8a952879e9a8...	🖥 Research & Dev...	🖥 1368
🖽 5e8a952879e9a862ae5d6218	rch & Dev...	🖥 1839
🖽 5e8a952879e9a8...	🖥 Sales	🖥 411
🖽 5e8a952879e9a8...	🖥 Sales	🖥 614
🖽 5e8a952879e9a8...	🖥 Sales	🖥 1624