**[MongoDB Shell Commands]**

show dbs

use training

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"score": 33.7733570443736

},

{

"evaluation": "term2",

"score": 96.05228578589255

},

{

"evaluation": "term3",

"score": 46.24926696413032

}

]

},{

"\_id": 71,

"name": "Kam",

"results": [

{

"evaluation": "term1",

"score": 81.56497719010976

},

{

"evaluation": "term2",

"score": 5.247410853581524

},

{

"evaluation": "term3",

"score": 92.10078400854972

}

]

},{

"\_id": 72,

"name": "Leonida",

"results": [

{

"evaluation": "term1",

"score": 92.10605086888438

},

{

"evaluation": "term2",

"score": 32.66022211621239

},

{

"evaluation": "term3",

"score": 38.22914395140913

}

]

},{

"\_id": 73,

"name": "Devorah",

"results": [

{

"evaluation": "term1",

"score": 69.60160495436016

},

{

"evaluation": "term2",

"score": 6.931507591998553

},

{

"evaluation": "term3",

"score": 55.66005349294464

}

]

},{

"\_id": 74,

"name": "Leola",

"results": [

{

"evaluation": "term1",

"score": 31.62936464207764

},

{

"evaluation": "term2",

"score": 91.28658941188532

},

{

"evaluation": "term3",

"score": 23.95163257932222

}

]

},{

"\_id": 75,

"name": "Tonia",

"results": [

{

"evaluation": "term1",

"score": 80.93655069496523

},

{

"evaluation": "term2",

"score": 79.54620208144452

},

{

"evaluation": "term3",

"score": 27.51843538237827

}

]

},{

"\_id": 76,

"name": "Adrien",

"results": [

{

"evaluation": "term1",

"score": 57.24794864351232

},

{

"evaluation": "term2",

"score": 19.5118228072558

},

{

"evaluation": "term3",

"score": 59.50508603413107

}

]

},{

"\_id": 77,

"name": "Efrain",

"results": [

{

"evaluation": "term1",

"score": 55.41266579085205

},

{

"evaluation": "term2",

"score": 31.30359328252952

},

{

"evaluation": "term3",

"score": 82.03870199947903

}

]

},{

"\_id": 78,

"name": "Len",

"results": [

{

"evaluation": "term1",

"score": 21.21850173315791

},

{

"evaluation": "term2",

"score": 13.2282768150266

},

{

"evaluation": "term3",

"score": 16.68695227176766

}

]

},{

"\_id": 79,

"name": "Mariela",

"results": [

{

"evaluation": "term1",

"score": 61.20158144877323

},

{

"evaluation": "term2",

"score": 52.75657259917104

},

{

"evaluation": "term3",

"score": 63.95107452142731

}

]

},{

"\_id": 80,

"name": "Echo",

"results": [

{

"evaluation": "term1",

"score": 27.77924608896123

},

{

"evaluation": "term2",

"score": 85.1861976198818

},

{

"evaluation": "term3",

"score": 75.62132497619177

}

]

},{

"\_id": 81,

"name": "Weigel",

"results": [

{

"evaluation": "term1",

"score": 66.0349256424749

},

{

"evaluation": "term2",

"score": 67.57096025532985

},

{

"evaluation": "term3",

"score": 28.82283586295377

}

]

},{

"\_id": 82,

"name": "Santiago",

"results": [

{

"evaluation": "term1",

"score": 33.48242310776701

},

{

"evaluation": "term2",

"score": 60.49199094204558

},

{

"evaluation": "term3",

"score": 75.58039801610906

}

]

},{

"\_id": 83,

"name": "Tonisha",

"results": [

{

"evaluation": "term1",

"score": 29.13833807032966

},

{

"evaluation": "term2",

"score": 35.25054111123917

},

{

"evaluation": "term3",

"score": 66.73047056293319

}

]

},{

"\_id": 84,

"name": "Timothy",

"results": [

{

"evaluation": "term1",

"score": 93.23020013495737

},

{

"evaluation": "term2",

"score": 49.06010347848443

},

{

"evaluation": "term3",

"score": 74.00788699415295

}

]

},{

"\_id": 85,

"name": "Rae",

"results": [

{

"evaluation": "term1",

"score": 63.86894250781692

},

{

"evaluation": "term2",

"score": 55.81549538273672

},

{

"evaluation": "term3",

"score": 59.13566011309437

}

]

},{

"\_id": 86,

"name": "Pelle",

"results": [

{

"evaluation": "term1",

"score": 2.013473187690951

},

{

"evaluation": "term2",

"score": 45.01802394825918

},

{

"evaluation": "term3",

"score": 63.74658824265818

}

]

},{

"\_id": 87,

"name": "Sabella",

"results": [

{

"evaluation": "term1",

"score": 21.05570509531929

},

{

"evaluation": "term2",

"score": 26.43387483146958

},

{

"evaluation": "term3",

"score": 18.96368757115227

}

]

},{

"\_id": 88,

"name": "Keesha",

"results": [

{

"evaluation": "term1",

"score": 82.35397321850031

},

{

"evaluation": "term2",

"score": 3.064361273717464

},

{

"evaluation": "term3",

"score": 98.46867828216399

}

]

},{

"\_id": 89,

"name": "Cassi",

"results": [

{

"evaluation": "term1",

"score": 43.04310994985133

},

{

"evaluation": "term2",

"score": 0.006247360551892012

},

{

"evaluation": "term3",

"score": 63.88558436723092

}

]

},{

"\_id": 90,

"name": "Hirt",

"results": [

{

"evaluation": "term1",

"score": 67.44931456608883

},

{

"evaluation": "term2",

"score": 41.77986504201782

},

{

"evaluation": "term3",

"score": 76.30879472084027

}

]

},{

"\_id": 91,

"name": "Barbie",

"results": [

{

"evaluation": "term1",

"score": 38.43781607953586

},

{

"evaluation": "term2",

"score": 95.70340794272111

},

{

"evaluation": "term3",

"score": 72.80272364761178

}

]

},{

"\_id": 92,

"name": "Sikorski",

"results": [

{

"evaluation": "term1",

"score": 30.02140506101446

},

{

"evaluation": "term2",

"score": 23.89164976236439

},

{

"evaluation": "term3",

"score": 31.70116444848026

}

]

},{

"\_id": 93,

"name": "Vanderburg",

"results": [

{

"evaluation": "term1",

"score": 27.55843343656866

},

{

"evaluation": "term2",

"score": 11.45699271327768

},

{

"evaluation": "term3",

"score": 75.53546873615787

}

]

},{

"\_id": 94,

"name": "Darby",

"results": [

{

"evaluation": "term1",

"score": 6.867644836612586

},

{

"evaluation": "term2",

"score": 63.4908039680606

},

{

"evaluation": "term3",

"score": 85.41865347441522

}

]

},{

"\_id": 95,

"name": "Omar",

"results": [

{

"evaluation": "term1",

"score": 8.58858127638702

},

{

"evaluation": "term2",

"score": 88.40377630359677

},

{

"evaluation": "term3",

"score": 25.71387474240768

}

]

},{

"\_id": 96,

"name": "Milan",

"results": [

{

"evaluation": "term1",

"score": 69.11554341921843

},

{

"evaluation": "term2",

"score": 10.2027724707151

},

{

"evaluation": "term3",

"score": 2.815944526266023

}

]

},{

"\_id": 97,

"name": "Maren",

"results": [

{

"evaluation": "term1",

"score": 94.4329121733663

},

{

"evaluation": "term2",

"score": 77.28263690107663

},

{

"evaluation": "term3",

"score": 6.872536184428357

}

]

},{

"\_id": 98,

"name": "Carli",

"results": [

{

"evaluation": "term1",

"score": 88.18040268522668

},

{

"evaluation": "term2",

"score": 60.3111085581054

},

{

"evaluation": "term3",

"score": 10.27537091986367

}

]

},{

"\_id": 99,

"name": "Jaclyn",

"results": [

{

"evaluation": "term1",

"score": 70.27627082122453

},

{

"evaluation": "term2",

"score": 56.78470387064279

},

{

"evaluation": "term3",

"score": 21.74758014553796

}

]

},{

"\_id": 100,

"name": "Demarcus",

"results": [

{

"evaluation": "term1",

"score": 47.42608580155614

},

{

"evaluation": "term2",

"score": 44.83416623719906

},

{

"evaluation": "term3",

"score": 19.85604968544429

}

]

},{

"\_id": 101,

"name": "Tania",

"results": [

{

"evaluation": "term1",

"score": 21.84617015735916

},

{

"evaluation": "term2",

"score": 53.8568257735492

},

{

"evaluation": "term3",

"score": 14.77762216150431

}

]

},{

"\_id": 102,

"name": "Garduno",

"results": [

{

"evaluation": "term1",

"score": 49.52877007656483

},

{

"evaluation": "term2",

"score": 44.55505066212384

},

{

"evaluation": "term3",

"score": 12.14582444697345

}

]

},{

"\_id": 103,

"name": "Fleta",

"results": [

{

"evaluation": "term1",

"score": 84.37799696030743

},

{

"evaluation": "term2",

"score": 15.95792143439528

},

{

"evaluation": "term3",

"score": 77.80745176713172

}

]

},{

"\_id": 104,

"name": "Brittni",

"results": [

{

"evaluation": "term1",

"score": 69.54399888097534

},

{

"evaluation": "term2",

"score": 82.00469934215849

},

{

"evaluation": "term3",

"score": 27.31675193678847

}

]

},{

"\_id": 105,

"name": "Shin",

"results": [

{

"evaluation": "term1",

"score": 62.28388941877533

},

{

"evaluation": "term2",

"score": 85.26863799439475

},

{

"evaluation": "term3",

"score": 88.9947941542333

}

]

},{

"\_id": 106,

"name": "Karry",

"results": [

{

"evaluation": "term1",

"score": 3.677125771067413

},

{

"evaluation": "term2",

"score": 40.39799056667404

},

{

"evaluation": "term3",

"score": 14.38347127905983

}

]

},{

"\_id": 107,

"name": "Beckie",

"results": [

{

"evaluation": "term1",

"score": 69.52419218194589

},

{

"evaluation": "term2",

"score": 24.85411404016219

},

{

"evaluation": "term3",

"score": 34.92039455520659

}

]

},{

"\_id": 108,

"name": "Mikaela",

"results": [

{

"evaluation": "term1",

"score": 63.75595052560389

},

{

"evaluation": "term2",

"score": 59.52298111997963

},

{

"evaluation": "term3",

"score": 88.66481441499843

}

]

},{

"\_id": 109,

"name": "Flora",

"results": [

{

"evaluation": "term1",

"score": 40.68238966626067

},

{

"evaluation": "term2",

"score": 46.77972040308903

},

{

"evaluation": "term3",

"score": 65.90098502289938

}

]

},{

"\_id": 110,

"name": "Linzey",

"results": [

{

"evaluation": "term1",

"score": 67.40792606687442

},

{

"evaluation": "term2",

"score": 58.58331128403415

},

{

"evaluation": "term3",

"score": 47.44831568815929

}

]

},{

"\_id": 111,

"name": "Gennie",

"results": [

{

"evaluation": "term1",

"score": 62.74309964110307

},

{

"evaluation": "term2",

"score": 92.18013849235186

},

{

"evaluation": "term3",

"score": 34.50565589246531

}

]

},{

"\_id": 112,

"name": "Myrtle",

"results": [

{

"evaluation": "term1",

"score": 73.93895528856032

},

{

"evaluation": "term2",

"score": 35.99397009906073

},

{

"evaluation": "term3",

"score": 93.85826506506328

}

]

},{

"\_id": 113,

"name": "Martha",

"results": [

{

"evaluation": "term1",

"score": 77.57315913088024

},

{

"evaluation": "term2",

"score": 13.28135073340091

},

{

"evaluation": "term3",

"score": 67.27527802263116

}

]

}]})

mongoimport --db training --collection employee\_training\_dataset --type=csv --headerline --file='/home/user/workspace/employee\_training\_dataset.csv'

mongoimport -d training -c csv\_insert\_test --type csv --file '/home/user/workspace/employee\_training\_dataset.csv' --headerline

Task 1

* var term1Fail = db.employee\_training\_dataset.find({"results":{$elemMatch:{ "evaluation":"term1","score":{$lt:37}}}})
* Answer: 39
* var total = db.employee\_training\_dataset.count()
* Answer: 114
* (term1Fail\*100/total)
* Answer: 34.21052631578947

Task 2

* db.employee\_training\_dataset.aggregate([  
   {$unwind: "$results"},  
   {$group:{"\_id":"name","aggregate":{$avg:"$results.score"}}},

{$match:{"aggregate":{$lt:37}}}  
])

Task 3

* db.employee\_training\_dataset.find([

{$project:{"results":{"$arrayElemAt":["results",0]},\_id:0}},

{$group:{\_id:"results.score","term1\_averageScore":{$avg:"$results.score"},count:{$sum:1}}}

])

* Answer: { "\_id": "results.score", "term1\_avegareScore": 51.55520892536331, "count": 114 }

Task 4

* db.employee\_training\_dataset.aggregate([

{$unwind: "results"},

{$group:{ "\_id": "","aggregate\_averageScore":{$avg: "$results.score"}}}

])

* Answer: { "\_id": "", "aggregate\_averageScore": 58.565235476888525}

Task 5

* db.employee\_training\_dataset.find({$and:[  
  {"results":{$elemMatch:{"evaluation":"term1","score":{$lt:37}}}},  
  {"results":{$elemMatch:{"evaluation":"term2","score":{$lt:37}}}},  
  {"results":{$elemMatch:{ "evaluation":"term3","score":{$lt:37}}}}  
  ]}).count()
* Answer: 6

Task 6

* db.employee\_training\_dataset.find({"results.score":{$lt:37}}).count()
* Answer: 91