**Queries**

**1)**

db.Combined.aggregate([

{"$match":{"$or":[{"Id":7},{"ParentId":7}]}},

{"$unwind" : "$owneruserprofile"},

{"$group" : { "\_id" :

{"OwnerID":"$owneruserprofile.Id","OwnerName":"$owneruserprofile.DisplayName","CreationDate":"$owneruserprofile.CreationDate","Upvote":"$owneruserprofile.UpVotes","Downvote":"$owneruserprofile.DownVotes"}}},

{"$sort":{"\_id.OwnerID":1}},

])

**2)**

db.Combined.aggregate([

{"$match":{"PostTypeId":1}},

{"$unwind" : "$tags"},

{"$match":{"tags":"medical"}},

{"$group" :{"\_id" : {"Title":"$Title","Topics":"$tags","Postid":"$Id","Viewcount":{"$max":"$ViewCount"}}}},

{"$sort":{"\_id.Viewcount":-1}},

{$limit:1}

])

**3)**

db.TagTime.aggregate([

{"$match":{"\_id.Topic":{"$in":["data-request","usa","open-access"]}}},

{"$unwind":'$titleInfo'},

{"$sort":{"titleInfo.time":1}},

{"$group":{

"\_id":"$\_id.Topic","titleDetails":{"$first":"$titleInfo"}

}}

])

**4)**

db.PostAnalytical.aggregate(

[

{$unwind : "$tags"},

{

"$match":

{

"Date":

{

$gt: ISODate("2013-01-01T00:00:00.000Z"),

$lt: ISODate("2014-01-01T00:00:00.000Z")

}

}

},

{$group: {\_id:"$NewId",Owners:{$addToSet:"$OwnerUserId"},tags:{$addToSet:"$tags"}

}

},{$unwind : "$tags"},

{$unwind:"$Owners"},

{$match:{tags:{$ne:""}}},

{$group:{\_id:"$tags",Owners:{$addToSet:"$Owners"}}},

{$project:{id:1,countofusers:{$size:"$Owners"}}},

{$sort:{countofusers:-1}},

{$limit:5}

])

**5)**

db.TagTime.aggregate([

{$unwind:"$titleInfo"},

{$match:{"\_id.Topic":"medical"}},

{

$group:{

\_id:{"Owner":"$titleInfo.AnswerUserId"},count:{$sum:1},questions:{"$push":"$titleInfo.Title"}

}

},

{$sort:{"count":-1}},

{$limit:1}

])

**6)**

Query first part:

db.TagTime.aggregate([

{$unwind:"$titleInfo"},

{$match:{"titleInfo.AnswerUserId":1511}},

{

$group:{

\_id:{"Tag":"$\_id.Topic"},count:{$sum:1}

}

},

{$match:{"count":{$gte:5}}},

{$sort:{"count":-1}}

])

Query second part:

db.Combined.aggregate([

{$match:{AcceptedAnswerId:""}},

{$match:{PostTypeId:1}},

{$unwind:"$tags"},

{$match:{"tags":{$in:["geospatial","usa","machine-learning","data-request","api","language"]}}},

{$sort:{CreationDate:-1}},

{$limit:5}

])

**7)**

db.Combined1.aggregate([

{$unwind:"$votes"},

{$unwind:"$Decision1"},

{$match:{"PostTypeId":2}},

{$match:{"votes.VoteTypeId":2}},

{$project:{\_id:"$ParentId",time:{$subtract:["$votes.CreationDate","$Decision1.decisiondate"]}}},

{$match:{"time":{"$gte":0}}},

{$group:{\_id:"$\_id",count:{$sum:1}}},

{$sort:{"count":-1}}

])

**8)**

db.authorcollection.aggregate([

{$unwind:"$answers"},

{$match:{"OwnerUserId":1511}},

{$group:{\_id:{author:"$OwnerUserId",coauthor:"$answers.OwnerUserId"},count:{$sum:1}}},

{$sort:{"count":-1}},

{$limit:5}

])