test> use db2

switched to db db2

db2> db.book.insert([{title : "ikigai",author : "clay",genre : "fiction",price : 350 , pdate : '2022-09-16'},{title : "habits",author : "jessica",genre : "fiction",price : 450,pdate : '2023-01-03'},{title : "devil",author : "hannah",genre : "non-fiction",price : 250,pdate : '2023-02-04'},{title : "night",author : "elie",genre : "non-fiction",price : 275,pdate : '2022-12-14'}])

{

acknowledged: true,

insertedIds: {

'0': ObjectId("652bccc44a48bc1a18be2611"),

'1': ObjectId("652bccc44a48bc1a18be2612"),

'2': ObjectId("652bccc44a48bc1a18be2613"),

'3': ObjectId("652bccc44a48bc1a18be2614")

}

}

db2> db.book.aggregate([{$group : {\_id : null,avgprice : {$avg : "$price"}}}])

[ { \_id: null, avgprice: 331.25 } ]

db2> db.book.aggregate([{$group : {\_id : "$genre",count : {$sum : 1}}}])

[ { \_id: 'non-fiction', count: 2 }, { \_id: 'fiction', count: 2 } ]

db2> db.book.aggregate([{$group : {\_id : "$genre",maxPrice : {$max : "$price"}}}])

[ { \_id: 'fiction', maxPrice: 450 },{ \_id: 'non-fiction', maxPrice: 275 }]

db2> db.book.aggregate([{$group : {\_id : "$author",bookCount : {$sum : 1}}}])

[

{ \_id: 'clay', bookCount: 1 },

{ \_id: 'hannah', bookCount: 1 },

{ \_id: 'elie', bookCount: 1 },

{ \_id: 'jessica', bookCount: 1 }

]

db2> db.book.aggregate([{$group : {\_id : "$author",bookCount : {$sum : 1}}},{$match : {bookCount : {$gte : 3}}}])

db2> db.book.aggregate([{$sort : {pdate : -1,price : 1}}])

[

{

\_id: ObjectId("652bccc44a48bc1a18be2613"),

title: 'devil',

author: 'hannah',

genre: 'non-fiction',

price: 250,

pdate: '2023-02-04'

},

{

\_id: ObjectId("652bccc44a48bc1a18be2612"),

title: 'habits',

author: 'jessica',

genre: 'fiction',

price: 450,

pdate: '2023-01-03'

},

{

\_id: ObjectId("652bccc44a48bc1a18be2614"),

title: 'night',

author: 'elie',

genre: 'non-fiction',

price: 275,

pdate: '2022-12-14'

},

{

\_id: ObjectId("652bccc44a48bc1a18be2611"),

title: 'ikigai',

author: 'clay',

genre: 'fiction',

price: 350,

pdate: '2022-09-16' } ]