**(1) Dropping useless fields**

db.Steam.updateMany({}, {$unset:{<field name>:1}}, false, true);

**(2) Deleting documents that has empty("") values**

db.Steam.deleteMany({is\_free:false, price:""});

**(3) Dropping fields, slicing values**

{ name: 1,

 "release\_date": {$split: ['$release\_date.date', ", "]},

 price:1,

 supported\_languages: {$split:["$supported\_languages", ", "]},

 windows:1,

 mac:1,

 linux:1,

 categories:1,

 genres:1 })

**(4) Replacing documents empty("") values with 0**

db.Steam.updateMany({is\_free:true}, {$set:{price:0}});

**(5) Topic 1 - Supporting OS by games**

db.Steam.aggregate(

{$match: [{windows: <bool>}, {mac: <bool>}, {linux: <bool>}]}},

$group: {\_id:"<kinds of OS>", cnt: {$sum:1}}})

**(6) Topic 2 - Supporting languages by games**

**2-1. The Number of games by the number of supported languages**

db.Steam.aggregate(

{'$project': {'name': 1, 'supported\_languages': 1, 'release\_date': 1}},

{'$unwind': {'path': '$supported\_languages'}},

{'$group': {'\_id': '$name', 'NumOfLan': {'$sum': 1}}},

{'$group': {'\_id': '$NumOfLan', 'total': {'$count': {}}}},

{'$sort': {'total': -1}} )

**(7) Topic 2 - Supporting languages by games**

**2-2. The Top 10 games that support various languages**

db.Steam.aggregate(

{'$project': {'name': 1, 'supported\_languages': 1, 'release\_date': 1}},

{'$unwind': {'path': '$supported\_languages'}},

{'$group': {'\_id': '$name', 'NumOfLan': {'$sum': 1}}},

{'$sort': {'NumOfLan': -1}},

{'$limit': 10})

**(8) Topic 3 - Average prices by per genres**

db.Steam.aggregate(

{'$unwind': {'path': '$genres', 'includeArrayIndex': 'string',

'preserveNullAndEmptyArrays': True}},

{'$group': {'\_id': '$genres', 'avgPrice': {'$avg': '$price'}}})