```
Question No: 4.d
```

# Query

```
db.data.aggregate([
  {\$unwind : "\$player_data"},
  {\$unwind : "\$Game Feed"},
  { $match : {"Game Feed.Outcome": {"$regex":"End"}} },
  {$project : { "player data.name":1,
                "Role" : { $substr: [ "$player_data.Role", 1, 4 ]} ,
                "Result" : { $substr: [ "$Game Feed.Action", 0, 4 ]} }},
  {$project : { "player data.name":1,
               "Win": {$cond: [{$eq:["$Result","$Role"]},1,0]} }},
  {\$group : {\"_id\":\$player_data.name\",
               "Played": { "$sum":1},
               "Wins": {$sum : "$Win" }}},
  {$project : {" id":1,
               "Played":1,
               "Wins":1,
               "Win Rate":{$multiply:[{$divide:["$Wins","$Played"]} ,100]}}}
])
```

Question No: 4.d

### Output

```
id" : "Stunlock", "Played" : 22, "Wins" : 10, "Win Rate" : 45.45454545454545 }
  ' id" : "Emily", "Played" : 19, "Wins" : 9, "Win Rate" : 47.368421052631575 }
  " id" : "Kibler", "Played" : 40, "Wins" : 24, "Win Rate" : 60 }
   id" : "julie", "Played" : 4, "Wins" : 4, "Win Rate" : 100 }
   id" : "Seabats", "Played" : 26, "Wins" : 9, "Win Rate" : 34.61538461538461 }
  " id" : "Nate", "Played" : 2, "Wins" : 1, "Win Rate" : 50 }
  " id" : "Bonde", "Played" : 2, "Wins" : 1, "Win Rate" : 50 }
  " id" : "Iroknight", "Played" : 10, "Wins" : 7, "Win Rate" : 70 }
   id" : "LadyAtarka", "Played" : 101, "Wins" : 52, "Win Rate" : 51.4851485149 }
   id" : "TheAsianAvenger", "Played" : 13, "Wins" : 4, "Win Rate" : 30.76923076923077
  " id" : "Aberdasher", "Plaved" : 4, "Wins" : 3, "Win Rate" : 75 }
  " id" : "synthe", "Played" : 5, "Wins" : 5, "Win Rate" : 100 }
  " id" : "Stranjak", "Played" : 3, "Wins" : 2, "Win Rate" : 66.6666666666666 }
  'id" : "TomRoss", "Played" : 14, "Wins" : 7, "Win Rate" : 50 }
  " id" : "Andrew", "Played" : 145, "Wins" : 85, "Win Rate" : 58.620689655172406 }
  " id" : "GGards", "Played" : 5, "Wins" : 4, "Win Rate" : 80 }
  " id" : "DoubleFried", "Played" : 81, "Wins" : 46, "Win Rate" : 56.79012345679012 }
   id" : "dcsports8", "Played" : 46, "Wins" : 26, "Win Rate" : 56.52173913043478 }
  " id" : "LSV", "Played" : 140, "Wins" : 83, "Win Rate" : 59.285714285714285 }
 " id" : "Ambiance", "Played" : 7, "Wins" : 4, "Win Rate" : 57.14285714285714 }
Type "it" for more
```

```
Question No: 4.e
```

## Query

Question No: 4.e

### Output

```
: "Sam", "Prefrence" : "Black" }
      : "Platypus", "Prefrence" : "Blue" }
      : "Stunlock", "Prefrence" : "White" }
     ': "Emily", "Prefrence": "Red" }
    " : "Eric", "Prefrence" : "Lime" }
      : "julie", "Prefrence" : "Brown" }
     : "DaveWilliams", "Prefrence" : "Black" |
      : "Pojo", "Prefrence" : "Pink" }
   id" : "Bonde", "Prefrence" : "Orange" }
  id" : "Squirrel_Loot", "Prefrence" : "Blue" }
     ": "LeeSharpe", "Prefrence": "Red" }
  id" : "Kyle", "Prefrence" : "Pink" }
   id" : "Nairbly", "Prefrence" : "Lime" }
  id" : "Saku", "Prefrence" : "Pink" }
      : "GrahamLRR", "Prefrence" : "Cyan" }
     : "coco", "Prefrence" : "Purple" }
     " : "SamSherman", "Prefrence" : "Blue" }
  id" : "Wolf", "Prefrence" : "Orange" }
  id" : "Keaton", "Prefrence" : "Black" }
 " id" : "Trotske", "Prefrence" : "White" }
ype "it" for more
```

## Query for colors subset

Saves the results of the query to a collection called 'color\_data'

# mongoexport for colors subset

```
mongoexport --db=assignment --collection=Color_data --type=csv --fields=_id,Prefrence
--out=C:\Users\rrsha\Documents\PythonScripts\Assignment-folder/output/color_data.csv
```

Substitute this with the path where you want to store your data

D:\Software\Mongo\bin>mongoexport --db=assignment --collection=Color\_data --type=csv --fields=\_id,Prefrence --out=C:\Users\rrsha\Documents\PythonScripts\Assignment-folder/output/color\_data.csv 2022-07-24T20:57:26.800+0530 connected to: mongodb://localhost/ 2022-07-24T20:57:26.864+0530 exported 108 records

# Query for Wins subset

```
db.data.aggregate([
  {\$unwind : "\$player data"},
  {\$unwind : "\$Game Feed"},
  { $match : {"Game Feed.Outcome": {"$regex":"End"}} },
  {$project : { "player data.name":1,
               "Role" : { $substr: [ "$player data.Role", 1, 4 ]} ,
               "Result" : { $substr: [ "$Game Feed.Action", 0, 4 ]} }},
  {$project : { "player data.name":1,
              "Win" : {$cond: [{$eq:["$Result","$Role"]},1,0]},
              "Crew Win" : {$cond: [{$and:[{$eq:["$Result","Crew"]},{$eq:["$Role","Crew"]}]},1,0]},
              "Imposter Win": {$cond: [{$and:[{$eq:["$Result","Impo"]},{$eq:["$Role","Impo"]}]},1,0]} }},
          : {" id":"$player data.name",
  {$group
              "Played" : {"$sum":1
              "Wins" : {$sum: "$Win"
              "Win As Crew" : {$sum: "$Crew Win"
              "Win As Imposter": {$sum: "$Imposter Win" } }},
  {$project : {" id":1,
              "Win As Crew":1,
              "Win As Imposter":1,
              "Win Rate":{$multiply:[{$divide:["$Wins","$Played"]},100]}}},
           : "Win data"}
  {$out
```

# mongoexport for colors subset

```
mongoexport --db=assignment --collection=Win_data --type=csv
--fields=_id,Win_As_Crew,Win_As_Imposter,Win_Rate
--out=C:\Users\rrsha\Documents\PythonScripts\Assignment-folder\output\win_data.csv
```

Substitute this with the path where you want to store your data

D:\Software\Mongo\bin>mongoexport --db=assignment --collection=Win\_data --type=csv --fields=\_id,Win\_As\_Crew,Win\_As\_Imposter,Win\_Rate --out=C:\Users\rrsha\Documents\PythonScripts\Assignment-folder\output\win\_data.csv 2022-07-24T20:59:35.602+06530 exported 108 records

## Query for Votes subset

```
db.data.aggregate([
  {\$unwind : "\$voting data"},
  {\$match : {\"voting data.Is alive\": {\"\$regex\":\"Yes\"}}},
  {project : { "voting data.name":1,
                "AgainstCrew" :
                   {$cond:[{ $regexMatch:{"input":"$voting data.Vote","regex": "Crew"}},1,0]},
                "AgainstImpo" :
                   {$cond:[{ $regexMatch:{"input":"$voting data.Vote","regex": "Impostor"}},1,0]} }},
  {$group
                                   : "$voting data.name",
            : {" id"
               "Voted Against Crew": {$sum : "$AgainstCrew" },
               "Voted Against Impo": {$sum : "$AgainstImpo" },
               "Voting Opprunites" : {"$sum":1} }},
  {$project : {" id":1,
              "Voted Against Crew":1,
              "Voted Against Impo":1,
              "Voting rate":
{$multiply:[{$divide:[{$add:["$Voted Against Crew","$Voted Against Impo"]},"$Voting Opprunites"]},100]} }},
            : "voting data"}
  {$out
1)
```

# mongoexport for colors subset

```
mongoexport --db=assignment --collection=voting_data --type=csv
--fields=_id,Voted_Against_Crew,Voted_Against_Impo,Voting_rate
--out=C:\Users\rrsha\Documents\PythonScripts\Assignment-folder\output\voting_data.csv
```

Substitute this with the path where you want to store your data

D:\Software\Mongo\bin>mongoexport --db=assignment --collection=voting\_data --type=csv --fields=\_id,Voted\_Against\_Crew,Voted\_Against\_Impo,Voting\_rate --out=C:\Users\rrsha\Documents\PythonScripts\Assignment-folder\output\voting\_data.csv
2022-07-24T20:18:56.3934e539 connected to: mongodb://localhost/
2022-07-24T20:18:56.3934e539 exported 107 records