1. Best Players by KDA (complex)
2. Champions with the highest win rate (simple)
3. Best Combination of Champions e.g. bot lane synergy (complex)
4. Most Picked Champions (simple)

most picked {team}{role}:

db.LeagueofLegends.aggregate([

{"$group":{"\_id":"$blueTopChamp","count":{$sum:1}}}, {"$project":{"blueTopChamp":1,"count":1}}, {"$sort":{"count":-1}}

])

1. Most Banned Champions (simple)

ban\_1 = db.bans.aggregate([{"$group":{"\_id":"$ban\_1","count":{$sum:1}}}, {"$project":{"ban\_1":1,"count":1}},{"$sort":{"count":-1}}])

ban\_2 = db.bans.aggregate([{"$group":{"\_id":"$ban\_2","count":{$sum:1}}}, {"$project":{"ban\_2":1,"count":1}},{"$sort":{"count":-1}}])

ban\_3 = db.bans.aggregate([{"$group":{"\_id":"$ban\_3","count":{$sum:1}}}, {"$project":{"ban\_3":1,"count":1}},{"$sort":{"count":-1}}])

1. Most Picked Champions by player (complex)
2. Best Players by Region
3. Average Game Length

**from** **pymongo** **import** MongoClient

client = MongoClient('localhost', 27017)

Columns description

Address - website link

League - LCS, LCK, etc

Year - 2014-2018

Season - (spring, summer)

Type - (season, playoff, regional, international)

blueTeamTag

bResult (win/loss)

rResult

redTeamTag

gamelength

golddiff - by minute array [0,0,-26,-18,147,...]

goldblue - by minute array [1000, 1000, 1200, …]

bKills - list of kills array [ [time, victim, killer, assists [], x, y], [kill 2], [kill 3], …]

bTowers - [[time, location], [tower 2], …]

bInhibs

bDragons - [[time, type], [dragon 2], …]

bBarons

goldred

rKills

rTowers

rInhibs

rDragons

rBarons

rHeralds

blueTop

blueTopChamp

goldblueTop - by minute array

blueJungle

blueJungleChamp

…

…

blueBans

redTop

redTopChamp

goldredTop

…

…

redBans