CREATE (ee:Person{name:"Peter",age:26, gender:"Male",test:"negative",vaccine:"yes"})

CREATE (eaa:Person{name:"Jack",age:36, gender:"Male",test:"negative",vaccine:"yes"})

CREATE (eeeec:Person{name:"Marco",age:26, gender:"Male",test:"negative",vaccine:"yes"})

CREATE (eece:Person{name:"Sara",age:16, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (op:Person{name:"Maria",age:28, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (we:Person{name:"Rose",age:46, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (re:Person{name:"Alisa",age:26, gender:"Female",test:"negative",vaccine:"no"})

CREATE (fv:Person{name:"James",age:31, gender:"male",test:"negative",vaccine:"no"})

CREATE (fg:Person{name:"Rosi",age:21, gender:"Female",test:"negative",vaccine:"no"})

CREATE (ju:Person{name:"Robert",age:46, gender:"male",test:"negative",vaccine:"no"})

CREATE (ro:Person{name:"George",age:43, gender:"male",test:"negative",vaccine:"no"})

CREATE (emi:Person{name:"Emil",age:29, gender:"male",test:"negative",vaccine:"no"})

CREATE (jav:Person{name:"Xavi",age:37, gender:"male",test:"negative",vaccine:"no"})

CREATE (robe:Person{name:"Robero",age:20, gender:"male",test:"negative",vaccine:"no"})

CREATE (sa:Person{name:"Salsa",age:34, gender:"Female",test:"negative",vaccine:"no"})

CREATE (ma:Person{name:"Mariam",age:14, gender:"Female",test:"negative",vaccine:"no"})

CREATE (an:Person{name:"Anna",age:17, gender:"Female",test:"negative",vaccine:"no"})

CREATE (fab:Person{name:"Fabi",age:86, gender:"male",test:"negative",vaccine:"no"})

CREATE (al:Person{name:"Ali",age:21, gender:"male",test:"negative",vaccine:"no"})

CREATE (th:Person{name:"Thomas",age:56, gender:"male",test:"negative",vaccine:"yes"})

CREATE (va:Person{name:"Valentina",age:24, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (ha:Person{name:"Hasan",age:45, gender:"male",test:"negative",vaccine:"yes"})

CREATE (Mil:Person{name:"Milad",age:19, gender:"male",test:"negative",vaccine:"yes"})

CREATE (joe:Person{name:"Joey",age:28, gender:"male",test:"negative",vaccine:"yes"})

CREATE (hars:Person{name:"Harsh",age:18, gender:"male",test:"negative",vaccine:"yes"})

CREATE (ren:Person{name:"Rene",age:28, gender:"male",test:"negative",vaccine:"no"})

CREATE (taher:Person{name:"Taher",age:28, gender:"male",test:"negative",vaccine:"no"})

CREATE (moha:Person{name:"Mohammad",age:27, gender:"male",test:"negative",vaccine:"no"})

CREATE (luan:Person{name:"Luana",age:13, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (mohad:Person{name:"Mohadesse",age:17, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (alessa:Person{name:"Alessandra",age:35, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (marga:Person{name:"Margarida",age:25, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (Liona:Person{name:"Liona",age:16, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (hessame:Person{name:"Hessame",age:45, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (azadeh:Person{name:"Azadeh",age:55, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (karim:Person{name:"Karim",age:14, gender:"male",test:"negative",vaccine:"yes"})

CREATE (koi:Person{name:"Koilen",age:33, gender:"male",test:"negative",vaccine:"yes"})

CREATE (marianama:Person{name:"Marianama",age:27, gender:"male",test:"negative",vaccine:"yes"})

CREATE (kevin:Person{name:"Kevin",age:37, gender:"male",test:"negative",vaccine:"no"})

CREATE (sergio:Person{name:"Sergio",age:49, gender:"male",test:"negative",vaccine:"no"})

CREATE (maracaro:Person{name:"Maracaro",age:17, gender:"male",test:"negative",vaccine:"no"})

CREATE (lios:Person{name:"Lios",age:37, gender:"male",test:"negative",vaccine:"no"})

CREATE (hamed:Person{name:"Hamed",age:21, gender:"male",test:"negative",vaccine:"yes"})

CREATE (taghi:Person{name:"Taghi",age:28, gender:"male",test:"negative",vaccine:"yes"})

CREATE (mahmoud:Person{name:"Mahmoud",age:25, gender:"male",test:"negative",vaccine:"yes"})

CREATE (hoda:Person{name:"Hodas",age:25, gender:"male",test:"negative",vaccine:"yes"})

CREATE (nazer:Person{name:"Nazer",age:35, gender:"male",test:"negative",vaccine:"yes"})

CREATE (shamel:Person{name:"Shamel",age:24, gender:"male",test:"negative",vaccine:"yes"})

CREATE (qader:Person{name:"Qader",age:29, gender:"male",test:"negative",vaccine:"yes"})

CREATE (jaber:Person{name:"Jaber",age:15, gender:"male",test:"negative",vaccine:"yes"})

CREATE (meion:Person{name:"Meion",age:14, gender:"male",test:"negative",vaccine:"yes"})

CREATE (asra:Person{name:"Asra",age:11, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (setareh:Person{name:"Setareh",age:8, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (acra:Person{name:"Acra",age:10, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (malda:Person{name:"Malda",age:22, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (hedi:Person{name:"Hediyeh",age:37, gender:"Female",test:"negative",vaccine:"yes"})

CREATE (lonamena:Person{name:"Lonamena",age:26, gender:"Female",test:"negative",vaccine:"yes"})

CREATE(group1:Group{name: "Group1", test: "negative"})

CREATE(group2:Group{name:"Group2", test: "negative"})

CREATE(group3:Group{name:"Group3", test: "negative"})

CREATE(group4:Group{name:"Group4", test: "negative"})

CREATE(group5:Group{name:"Group5", test: "negative"})

CREATE(group6:Group{name:"Group6", test: "negative"})

CREATE(group7:Group{name:"Group7", test: "negative"})

CREATE(group8:Group{name:"Group8", test: "negative"})

CREATE(group9:Group{name:"Group9", test: "negative"})

CREATE(group10:Group{name:"Group10", test: "negative"})

CREATE(group11:Group{name:"Group11", test: "negative"})

CREATE(group12:Group{name:"Group12", test: "negative"})

CREATE(group13:Group{name:"Group13", test: "negative"})

CREATE(group14:Group{name:"Group14", test: "negative"})

CREATE(group15:Group{name:"Group15", test: "negative"})

CREATE(group16:Group{name:"Group16", test: "negative"})

CREATE(group17:Group{name:"Group17", test: "negative"})

CREATE(group18:Group{name:"Group18", test: "negative"})

CREATE(group19:Group{name:"Group19", test: "negative"})

CREATE(group20:Group{name:"Group20", test: "negative"})

CREATE (ee)-[:BelongsTo]->(group1)

CREATE (eaa)-[:BelongsTo]->(group2)

CREATE (eeeec)-[:BelongsTo]->(group3)

CREATE (eece)-[:BelongsTo]->(group4)

CREATE (op)-[:BelongsTo]->(group5)

CREATE (we)-[:BelongsTo]->(group6)

CREATE (re)-[:BelongsTo]->(group7)

CREATE (fv)-[:BelongsTo]->(group8)

CREATE (fg)-[:BelongsTo]->(group9)

CREATE (ju)-[:BelongsTo]->(group10)

CREATE (ro)-[:BelongsTo]->(group11)

CREATE (emi)-[:BelongsTo]->(group12)

CREATE (jav)-[:BelongsTo]->(group13)

CREATE (robe)-[:BelongsTo]->(group14)

CREATE (sa)-[:BelongsTo]->(group15)

CREATE (ma)-[:BelongsTo]->(group16)

CREATE (an)-[:BelongsTo]->(group17)

CREATE (fab)-[:BelongsTo]->(group18)

CREATE (al)-[:BelongsTo]->(group19)

CREATE (th)-[:BelongsTo]->(group20)

CREATE (va)-[:BelongsTo]->(group1)

CREATE (ha)-[:BelongsTo]->(group2)

CREATE (Mil)-[:BelongsTo]->(group3)

CREATE (joe)-[:BelongsTo]->(group4)

CREATE (hars)-[:BelongsTo]->(group5)

CREATE (ren)-[:BelongsTo]->(group6)

CREATE (taher)-[:BelongsTo]->(group7)

CREATE (moha)-[:BelongsTo]->(group8)

CREATE (luan)-[:BelongsTo]->(group9)

CREATE (mohad)-[:BelongsTo]->(group10)

CREATE (alessa)-[:BelongsTo]->(group11)

CREATE (marga)-[:BelongsTo]->(group12)

CREATE (Liona)-[:BelongsTo]->(group13)

CREATE (hessame)-[:BelongsTo]->(group14)

CREATE (azadeh)-[:BelongsTo]->(group15)

CREATE (karim)-[:BelongsTo]->(group16)

CREATE (koi)-[:BelongsTo]->(group17)

CREATE (marianama)-[:BelongsTo]->(group18)

CREATE (kevin)-[:BelongsTo]->(group19)

CREATE (sergio)-[:BelongsTo]->(group20)

CREATE (maracaro)-[:BelongsTo]->(group1)

CREATE (lios)-[:BelongsTo]->(group2)

CREATE (hamed)-[:BelongsTo]->(group3)

CREATE (taghi)-[:BelongsTo]->(group4)

CREATE (mahmoud)-[:BelongsTo]->(group5)

CREATE (hoda)-[:BelongsTo]->(group6)

CREATE (nazer)-[:BelongsTo]->(group7)

CREATE (shamel)-[:BelongsTo]->(group8)

CREATE (qader)-[:BelongsTo]->(group9)

CREATE (jaber)-[:BelongsTo]->(group10)

CREATE (meion)-[:BelongsTo]->(group11)

CREATE (asra)-[:BelongsTo]->(group12)

CREATE (setareh)-[:BelongsTo]->(group13)

CREATE (acra)-[:BelongsTo]->(group14)

CREATE (malda)-[:BelongsTo]->(group15)

CREATE (hedi)-[:BelongsTo]->(group16)

CREATE (lonamena)-[:BelongsTo]->(group17)

CREATE(m1:Meeting{name:"meeting1"})

CREATE(m2:Meeting{name:"meeting2"})

CREATE(m3:Meeting{name:"Meeting3"})

CREATE(m4:Meeting{name:"Meeting4"})

CREATE(m5:Meeting{name:"Meeting5"})

CREATE(m6:Meeting{name:"Meeting6"})

CREATE(m7:Meeting{name:"Meeting7"})

CREATE(m8:Meeting{name:"Meeting8"})

CREATE(m9:Meeting{name:"Meeting9"})

CREATE(m10:Meeting{name:"Meeting10"})

CREATE(m11:Meeting{name:"Meeting11"})

CREATE(m12:Meeting{name:"Meeting12"})

CREATE(m13:Meeting{name:"Meeting13"})

CREATE(m14:Meeting{name:'Meeting14'})

CREATE (place1:Place{name:"Alex Restaurant",time:"morning",type:"restaurant", ExDate: date('+2015-W13-4') + duration({days: 10}) })

CREATE (place2:Place{name:"D Restaurant",time:"morning",type:"restaurant", ExDate: date() + duration({days: 10}) })

CREATE (place3:Place{name:"Alpacino Theater",time:"morning",type:"theater" , ExDate: date() + duration({days: 10}) })

CREATE (place4:Place{name:"H Theater",time:"morning",type:"theater", ExDate: date() + duration({days: 10})})

CREATE (place5:Place{name:"Mermalada Bar",time:"afternoon",type:"bar", ExDate: date() + duration({days: 10})})

CREATE (place6:Place{name:"Hefta Bar",time:"afternoon",type:"bar", ExDate: date() + duration({days: 10})})

CREATE (place7:Place{name:"Coco Coffeshop",time:"afternoon",type:"coffeeshop", ExDate: date() + duration({days: 10})})

CREATE (place8:Place{name:"Meiame Restaurant",time:"afternoon",type:"restaurant", ExDate: date() + duration({days: 10})})

CREATE (place9:Place{name:"K Coffeshop",time:"afternoon",type:"coffeeshop", ExDate: date() + duration({days: 10})})

CREATE (place10:Place{name:"Ogi Coffeshop",time:"morning",type:"coffeeshop", ExDate: date() + duration({days: 10})})

CREATE (place11:Place{name:"Jack Bar",time:"afternoon",type:"bar", ExDate: date() + duration({days: 10})})

CREATE (group1)-[:HasGoneTo]->(place1)

CREATE (group2)-[:HasGoneTo]->(place2)

CREATE (group3)-[:HasGoneTo]->(place3)

CREATE (group4)-[:HasGoneTo]->(place4)

CREATE (group5)-[:HasGoneTo]->(place5)

CREATE (group6)-[:HasGoneTo]->(place5)

CREATE (group7)-[:HasGoneTo]->(place8)

CREATE (group9)-[:HasGoneTo]->(place8)

CREATE (group10)-[:HasGoneTo]->(place10)

CREATE (group11)-[:HasGoneTo]->(place11)

CREATE (group12)-[:HasGoneTo]->(place1)

CREATE (group13)-[:HasGoneTo]->(place2)

CREATE (group14)-[:HasGoneTo]->(place3)

CREATE (group15)-[:HasGoneTo]->(place5)

CREATE (group17)-[:HasGoneTo]->(place6)

CREATE (group18)-[:HasGoneTo]->(place7)

CREATE (group19)-[:HasGoneTo]->(place8)

CREATE (group20)-[:HasGoneTo]->(place9)

CREATE (group1)-[:HasGoneTo]->(m1)

CREATE (group2)-[:HasGoneTo]->(m2)

CREATE (group3)-[:HasGoneTo]->(m3)

CREATE (group4)-[:HasGoneTo]->(m4)

CREATE (group5)-[:HasGoneTo]->(m5)

CREATE (group6)-[:HasGoneTo]->(m6)

CREATE (group7)-[:HasGoneTo]->(m7)

CREATE (group8)-[:HasGoneTo]->(m8)

CREATE (group9)-[:HasGoneTo]->(m9)

CREATE (group10)-[:HasGoneTo]->(m10)

CREATE (group11)-[:HasGoneTo]->(m11)

CREATE (group12)-[:HasGoneTo]->(m12)

CREATE (group13)-[:HasGoneTo]->(m13)

CREATE (group14)-[:HasGoneTo]->(m14)

CREATE (group15)-[:HasGoneTo]->(m1)

CREATE (group16)-[:HasGoneTo]->(m1)

CREATE (group17)-[:HasGoneTo]->(m11)

CREATE (group18)-[:HasGoneTo]->(m1)

CREATE (group19)-[:HasGoneTo]->(m10)

CREATE (group20)-[:HasGoneTo]->(m11)

CREATE (place1:PlaceHistory{name:"Alex Restaurant",type:"restaurant" })

CREATE (place2:PlaceHistory{name:"D Restaurant",type:"restaurant" })

CREATE (place3:PlaceHistory{name:"Alpacino Theater",type:"theater" })

CREATE (place4:PlaceHistory{name:"H Theater",type:"theater" })

CREATE (place5:PlaceHistory{name:"Mermalada Bar",type:"bar" })

CREATE (place6:PlaceHistory{name:"Hefta Bar",type:"bar" })

CREATE (place7:PlaceHistory{name:"Coco Coffeshop",type:"coffeeshop" })

CREATE (place8:PlaceHistory{name:"Meiame Restaurant",type:"restaurant" })

CREATE (place9:PlaceHistory{name:"K Coffeshop",type:"coffeeshop" })

CREATE (place10:PlaceHistory{name:"Ogi Coffeshop",type:"coffeeshop" })

CREATE (place11:PlaceHistory{name:"Jack Bar",type:"bar" })

CREATE (place12:PlaceHistory{name:"Meeting",type:"Meeting" })

CREATE (Time1:TimeHistory{type:"morning" })

CREATE (Time2:TimeHistory{type:"afternoon" })

CREATE (Time3:TimeHistory{type:"night" })

create (place1)-[:HistoryArc{infection: 0, total: 0}]->(Time1)

create (place1)-[:HistoryArc{infection: 0, total: 0}]->(Time2)

create (place1)-[:HistoryArc{infection: 0, total: 0}]->(Time3)

CREATE (Time4:TimeHistory{type:"morning" })

CREATE (Time5:TimeHistory{type:"afternoon" })

CREATE (Time6:TimeHistory{type:"night" })

create (place2)-[:HistoryArc{infection: 0, total: 0}]->(Time4)

create (place2)-[:HistoryArc{infection: 0, total: 0}]->(Time5)

create (place2)-[:HistoryArc{infection: 0, total: 0}]->(Time6)

CREATE (Time7:TimeHistory{type:"morning" })

CREATE (Time8:TimeHistory{type:"afternoon" })

CREATE (Time9:TimeHistory{type:"night" })

create (place3)-[:HistoryArc{infection: 0, total: 0}]->(Time7)

create (place3)-[:HistoryArc{infection: 0, total: 0}]->(Time8)

create (place3)-[:HistoryArc{infection: 0, total: 0}]->(Time9)

CREATE (Time10:TimeHistory{type:"morning" })

CREATE (Time11:TimeHistory{type:"afternoon" })

CREATE (Time12:TimeHistory{type:"night" })

create (place4)-[:HistoryArc{infection: 0, total: 0}]->(Time10)

create (place4)-[:HistoryArc{infection: 0, total: 0}]->(Time11)

create (place4)-[:HistoryArc{infection: 0, total: 0}]->(Time12)

CREATE (Time13:TimeHistory{type:"morning" })

CREATE (Time14:TimeHistory{type:"afternoon" })

CREATE (Time15:TimeHistory{type:"night" })

create (place5)-[:HistoryArc{infection: 0, total: 0}]->(Time13)

create (place5)-[:HistoryArc{infection: 0, total: 0}]->(Time14)

create (place5)-[:HistoryArc{infection: 0, total: 0}]->(Time15)

CREATE (Time16:TimeHistory{type:"morning" })

CREATE (Time17:TimeHistory{type:"afternoon" })

CREATE (Time18:TimeHistory{type:"night" })

create (place6)-[:HistoryArc{infection: 0, total: 0}]->(Time16)

create (place6)-[:HistoryArc{infection: 0, total: 0}]->(Time17)

create (place6)-[:HistoryArc{infection: 0, total: 0}]->(Time18)

CREATE (Time19:TimeHistory{type:"morning" })

CREATE (Time20:TimeHistory{type:"afternoon" })

CREATE (Time21:TimeHistory{type:"night" })

create (place7)-[:HistoryArc{infection: 0, total: 0}]->(Time19)

create (place7)-[:HistoryArc{infection: 0, total: 0}]->(Time20)

create (place7)-[:HistoryArc{infection: 0, total: 0}]->(Time21)

CREATE (Time22:TimeHistory{type:"morning" })

CREATE (Time23:TimeHistory{type:"afternoon" })

CREATE (Time24:TimeHistory{type:"night" })

create (place8)-[:HistoryArc{infection: 0, total: 0}]->(Time22)

create (place8)-[:HistoryArc{infection: 0, total: 0}]->(Time23)

create (place8)-[:HistoryArc{infection: 0, total: 0}]->(Time24)

CREATE (Time25:TimeHistory{type:"morning" })

CREATE (Time26:TimeHistory{type:"afternoon" })

CREATE (Time27:TimeHistory{type:"night" })

create (place9)-[:HistoryArc{infection: 0, total: 0}]->(Time25)

create (place9)-[:HistoryArc{infection: 0, total: 0}]->(Time26)

create (place9)-[:HistoryArc{infection: 0, total: 0}]->(Time27)

CREATE (Time28:TimeHistory{type:"morning" })

CREATE (Time29:TimeHistory{type:"afternoon" })

CREATE (Time30:TimeHistory{type:"night" })

create (place10)-[:HistoryArc{infection: 0, total: 0}]->(Time28)

create (place10)-[:HistoryArc{infection: 0, total: 0}]->(Time29)

create (place10)-[:HistoryArc{infection: 0, total: 0}]->(Time30)

CREATE (Time31:TimeHistory{type:"morning" })

CREATE (Time32:TimeHistory{type:"afternoon" })

CREATE (Time33:TimeHistory{type:"night" })

create (place11)-[:HistoryArc{infection: 0, total: 0}]->(Time31)

create (place11)-[:HistoryArc{infection: 0, total: 0}]->(Time32)

create (place11)-[:HistoryArc{infection: 0, total: 0}]->(Time33)

CREATE (Time34:TimeHistory{type:"MeetingTime" })

create (place12)-[:HistoryArc{infection: 0, total: 0}]->(Time34)

1.

match (p:PlaceHistory)-[h:HistoryArc]->(t:TimeHistory)

set h.total = 100, h.infection = 10

return p,h,t

2.

match(g:Group)-[go:HasGoneTo]->(place:Place)

match(person:Person)-[b:BelongsTo]->(g)

match (phist:PlaceHistory)-[h:HistoryArc]->(t:TimeHistory) where phist.name= place.name and t.type = place.time

with h, count(person) as tedad

set h.total = h.total + tedad

return h