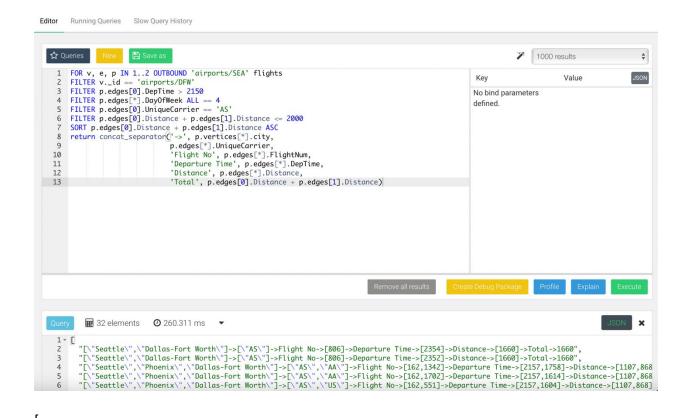
Part 1

AQL:



"[\"Seattle\",\"Dallas-Fort Worth\"]->[\"AS\"]->Flight No->[806]->Departure Time->[2354]->Distance->[1660]->Total->1660",

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"[\"Seattle\",\"Dallas-Fort Worth\"]->[\"AS\"]->Flight No->[806]->Departure
Time->[2352]->Distance->[1660]->Total->1660",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1342]->Departure Time->[2157,1758]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1702]->Departure Time->[2157,1614]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,551]->Departure Time->[2157,1604]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1424]->Departure Time->[2157,1441]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,548]->Departure Time->[2157,2044]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1894]->Departure Time->[2157,1339]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,544]->Departure Time->[2157,1311]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1342]->Departure Time->[2157,1757]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1702]->Departure Time->[2157,1753]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1476]->Departure Time->[2157,1217]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,2222]->Departure Time->[2157,1102]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,551]->Departure Time->[2157,1614]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,542]->Departure Time->[2157,950]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1364]->Departure Time->[2157,934]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1424]->Departure Time->[2157,1440]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1770]->Departure Time->[2157,828]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,544]->Departure Time->[2157,1353]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1894]->Departure Time->[2157,1335]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,540]->Departure Time->[2157,747]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,558]->Departure Time->[2157,726]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1476]->Departure Time->[2157,1212]->Distance->[1107,868]->Total->1975",
```

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"[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,2256]->Departure Time->[2157,613]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,222]->Departure Time->[2157,1137]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,542]->Departure Time->[2157,959]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1364]->Departure Time->[2157,938]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,1770]->Departure Time->[2157,832]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,540]->Departure Time->[2157,750]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,558]->Departure Time->[2157,727]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"AA\"]->Flight
No->[162,2256]->Departure Time->[2157,613]->Distance->[1107,868]->Total->1975",
 "[\"Seattle\",\"Phoenix\",\"Dallas-Fort Worth\"]->[\"AS\",\"US\"]->Flight
No->[162,548]->Departure Time->[2157,2016]->Distance->[1107,868]->Total->1975"
```

Part 2

Cosmos Gremlin Query:

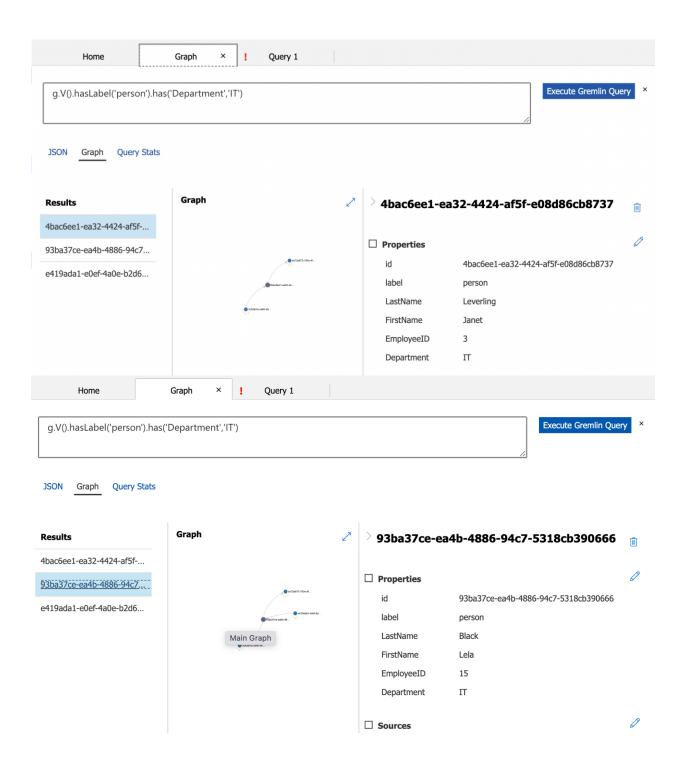
```
g.addV('person').property('LastName','Fuller').property('FirstName','Andrew').property('EmployeelD',2)
g.addV('person').property('LastName','Leverling').property('FirstName','Janet').property('EmployeelD',3).Property('Department','IT')
g.addV('person').property('LastName','Buchanan').property('FirstName','Steven').property('EmployeelD',5).Property('Department','Finance')
g.addV('person').property('LastName','King').property('FirstName','Robert').property('EmployeelD',7).Property('Department','Finance')
g.addV('person').property('LastName','Chang').property('FirstName','Leslie').property('EmployeelD',12).Property('Department','Finance')
g.addV('person').property('LastName','Ng').property('FirstName','Jordan').property('EmployeelD',14).Property('Department','Finance')
g.addV('person').property('LastName','Black').property('FirstName','Lela').property('EmployeelD',15).Property('Department','IT')
g.addV('person').property('LastName','Thompson').property('FirstName','Connie').property('EmployeelD',21).Property('Department','IT')
g.v().hasLabel('person').has('EmployeelD',21).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',15)))
```

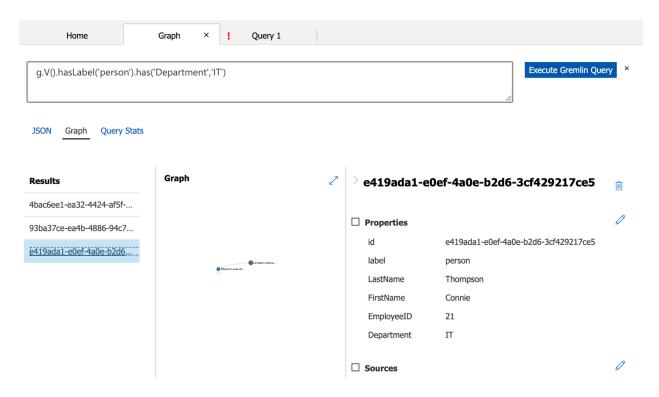
g.V().hasLabel('person').has('EmployeeID',15).addE('reportsto').to(g.V().hasLabel('person').has('EmployeeID',7))

```
g.V().hasLabel('person').has('EmployeelD',15).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',14).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',7))\\ g.V().hasLabel('person').has('EmployeelD',12).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',7))\\ g.V().hasLabel('person').has('EmployeelD',7).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',3))\\ g.V().hasLabel('person').has('EmployeelD',7).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',7).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',5))\\ g.V().hasLabel('person').has('EmployeelD',3).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))\\ g.V().hasLabel('person').has('EmployeelD',5).addE('reportsto').to(g.V().hasLabel('person').has('EmployeelD',2))
```

Q2

g.V().hasLabel('person').has('Department','IT')





Q3

g.V().hasLabel('person').has('EmployeeID',2).inE('reportsto').outV().hasLabel('person').values('EmployeeID')

g.V().hasLabel('person').has('EmployeeID',2).inE('reportsto').outV().hasLabel('person').inE('reportsto').outV().hasLabel('person').values('EmployeeID').dedup()

[We then get a union of these 2 query's result together and get all employees that has Employee 2 as their direct and indirect manager]

