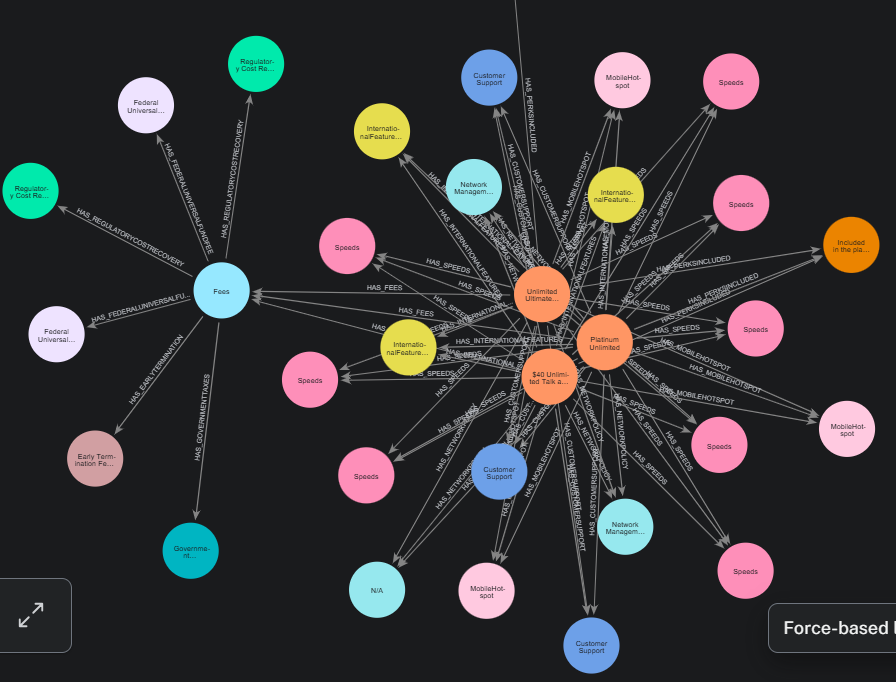
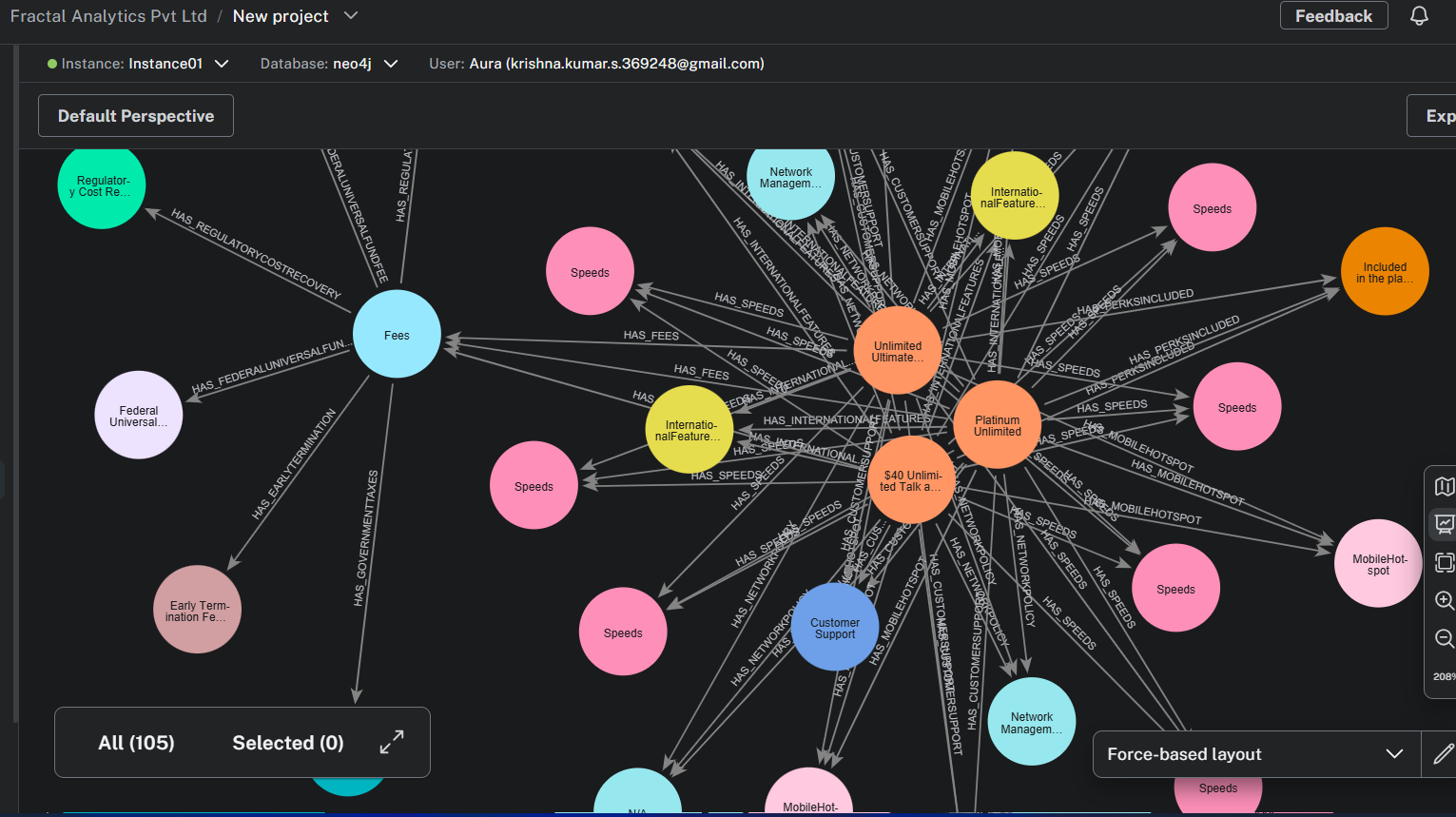
# Unified GraphDB schema for Plans from multiple providers

## Plans under consideration:

* StraightTalk : Platinum Unlimited - <https://www.straighttalk.com/all-plans>
* Verizon : Unlimited Ultimate - <https://www.verizon.com/plans/unlimited/>
* Tracfone : $40 Unlimited Talk and Text, 20GB of Data Hotspot Capable and ID Protection / 30 Days - <https://www.tracfone.com/phone-service-plans>

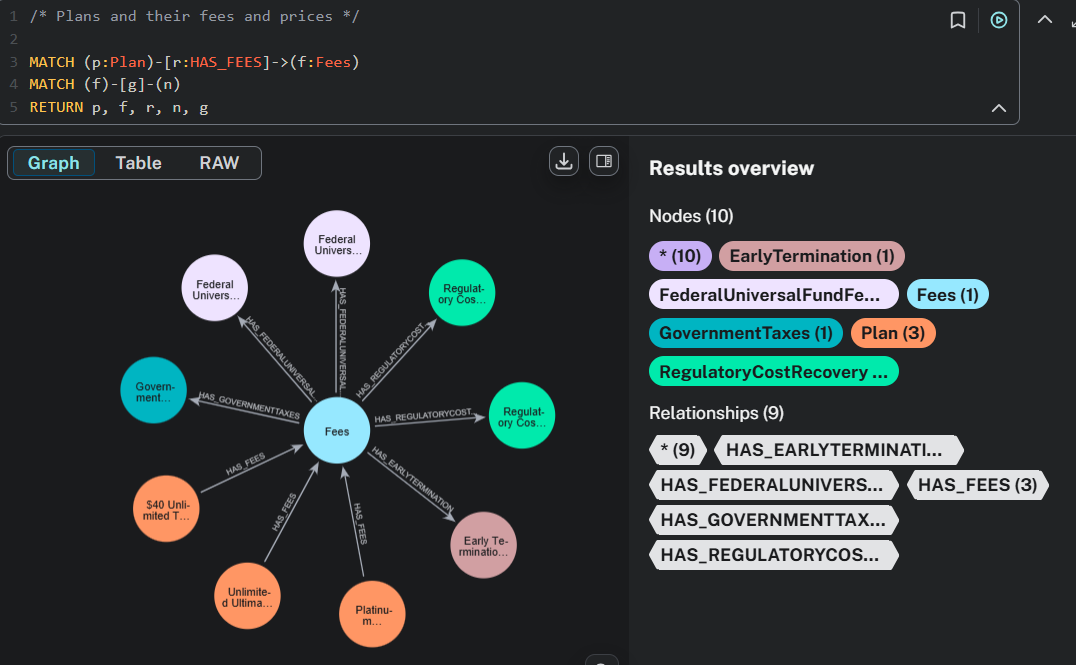
## Graph Visualization:





## Queries:

### Scenario 1:



### Scenario 2:

##### Cypher Query:

MATCH (n:Plan)

RETURN labels(n) AS label, properties(n) AS properties

UNION ALL

MATCH (n:InternationalFeatures)

RETURN labels(n) AS label, properties(n) AS properties

UNION ALL

MATCH (n:PerksIncluded)

RETURN labels(n) AS label, properties(n) AS properties

##### Neo4j response:

label,properties

[Plan],"{

streaming\_quality: N/A,

pricing\_tier\_price\_per\_line: 40.0,

bring\_your\_own\_device\_offer: Discounts and bundling options are available when using your own equipment (e.g., modem/router).,

upgrade\_offer: N/A,

data\_included: 20 GB,

price\_lock\_years: 0.0,

provider: Tracfone Wireless,

discounts\_and\_bundles\_link: https://www.tracfone.com/discount-and-bundles,

additional\_data\_charges: $0.00 (no extra charge for additional data),

pricing\_tier\_price\_notes: [Cost: $40.00 per 30-day cycle],

price\_with\_auto\_pay: false,

description: Plan,

pricing\_tier\_span\_months: 1.0,

network\_access: [5G, 4G LTE],

monthly\_price: $40.00,

connected\_device\_discount: Discounts and bundling options are available when combining with other Tracfone services (video, phones, wireless services),

disclosure\_title: Mobile Broadband Consumer Disclosure,

pricing\_tier\_num\_lines: 1.0,

premium\_data: true,

plan\_name: $40 Unlimited Talk and Text, 20GB of Data (Hotspot Capable) â€” 30 Days

}"

[Plan],"{

streaming\_quality: Up to 4K Ultra High Definition on 5G Ultra Wideband

Up to 1080p on 5G or 4G LTE,

pricing\_tier\_price\_per\_line: 90.0,

bring\_your\_own\_device\_offer: $540 credit with a new Unlimited Ultimate line.,

upgrade\_offer: New and existing customers get Verizonâ€™s best in-market trade-in deals.,

data\_included: Unlimited premium data on Verizonâ€™s 5G Ultra Wideband, 5G, and 4G LTE networks.,

price\_lock\_years: 3.0,

provider: Verizon,

discounts\_and\_bundles\_link: N/A,

additional\_data\_charges: Speeds reduced after 200 GB/month to:

6 Mbps on 5G Ultra Wideband

600 Kbps on 5G / 4G LTE,

pricing\_tier\_price\_notes: [These prices are before any discounts., $10/month discount when using Auto Pay with ACH or the Verizon Visa Card and enabling paper-free billing., Net price after combining with Auto Pay discount is $65/month per line (for single-line users).],

price\_with\_auto\_pay: true,

description: Plan,

pricing\_tier\_span\_months: 1.0,

network\_access: [5G Ultra Wideband, 5G, 4G LTE],

monthly\_price: 90,

connected\_device\_discount: Up to 50% off two lines for eligible devices (smartwatch, tablet, hotspot, in-car Wi-Fi).,

disclosure\_title: N/A,

pricing\_tier\_num\_lines: 1.0,

premium\_data: true,

plan\_name: Unlimited Ultimate Plan

}"

[Plan],"{

streaming\_quality: unspecified,

pricing\_tier\_price\_per\_line: 65.0,

bring\_your\_own\_device\_offer: Details can be found here.,

upgrade\_offer: unspecified,

data\_included: Unlimited data included with the monthly price,

price\_lock\_years: 0.0,

provider: Straight Talk Wireless,

discounts\_and\_bundles\_link: Details can be found here.,

additional\_data\_charges: no additional charges for extra data usage.,

pricing\_tier\_price\_notes: [$60/mo offer for the first 3 months with Auto Pay],

price\_with\_auto\_pay: false,

description: Plan,

pricing\_tier\_span\_months: 1.0,

network\_access: [5G Ultra Wideband, 5G, 4G LTE],

monthly\_price: 65.00,

connected\_device\_discount: Details can be found here.,

disclosure\_title: Privacy policy details are available here.,

pricing\_tier\_num\_lines: 1.0,

premium\_data: true,

plan\_name: Platinum Unlimited

}"

[InternationalFeatures],"{

description: InternationalFeatures,

throttle\_speed: N/A,

high\_speed\_data\_gb: 20.0,

roaming: N/A,

intl\_calling: N/A

}"

[InternationalFeatures],"{

description: InternationalFeatures,

throttle\_speed: 1.5 Mbps,

high\_speed\_data\_gb: 15.0,

roaming: Unlimited talk and text in 210+ countries.,

intl\_calling: 300 minutes/month of international calling to one selected country.

}"

[InternationalFeatures],"{

description: InternationalFeatures,

throttle\_speed: unspecified,

high\_speed\_data\_gb: 0.0,

roaming: unspecified,

intl\_calling: unspecified

}"

[PerksIncluded],"{

description: Included in the plan offering (no specific technical detail provided on protection features).,

type: ID Protection

}"

[PerksIncluded],"{

description: Includes Disney+, Hulu, and ESPN+ (with ads).,

type: Streaming

}"