1.

CREATE (a:District{districtName:'Large Customer District'})

Match(r:region)Match(d:D)

Create(b:Customer{name:'archit',addr1:null,addr2:'123 Sesame St',city:'Rochester',state:'NY',zip:'14623',custID:'101010'})

Create(c:Earnings{earnings:'10500.00',reportDate:'5/1/2020'})

MATCH(a:Region {regionName:'Central'}) MATCH(b:District {districtName: 'Large Customer District'}) CREATE(a) <- [:CONTAINS\_DISTRICT] - (b)

MATCH(a:District {districtName: 'Large Customer District'}) MATCH(b:Customer {name:'Archit'}) CREATE(a) <- [:CONTAINS\_CUSTOMER] - (b)

MATCH(a:Customer {name:'Architl'}) MATCH(a:Earnings {earnings: '10500.00',reportDate: 5/1/2020}) CREATE(a) <- [:EARNINGS\_OF] - (b)

Added 3 labels, created 3 nodes, set 9 properties, completed after 424 ms.

MATCH (c:Region{regionName:'Central'})-[r]->(e1:District{districtName:'Large Customer District'}) CREATE(c)-[:CONTAINS\_DISTRICT]->(e1)

Created 1 relationship, completed after 2 ms.

Created 1 relationship, completed after 2 ms.

Created 1 relationship, completed after 2 ms.

4. MATCH (c:Region)-[r]->(e1:District)

where c.regionName = 'Eastern'

with e1.distID as distID,c.regionName as region

Match (a:Customer)-[r]->(b:Earnings)

where distID = a.districtID

return Distinct region,a.name,Avg(b.earnings)

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│"region" │"a.name" │"Avg(b.earnings)" │

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│"Eastern"│"Motts Holdings Inc." │164.5 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Fidelity National Corp Ga" │173.0 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Saint Andrews Golf Corp" │114.0 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Cohesant Technologies Inc" │295.0 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Publishing Co Of North America Inc"│145.0 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Railamerica Inc" │238.33333333333334│

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Liberty Homes Inc" │335.0 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Gte Corporation" │172.5 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Meridian Resources Corporation" │140.0 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"V.e.v. Sa" │99.33333333333333 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Pulitzer Publishing Company" │164.5 │

├─────────┼────────────────────────────────────┼──────────────────┤

│"Eastern"│"Beckman Coulter Inc." │167.0 │

└─────────┴────────────────────────────────────┴──────────────────┘

5.

Match(a.customer{name:"Archit"}) set a.name='aaa archit' return a.name

8.

Match (a:Customer)

where split(a.name," ")[1]=~ '^T.\*'

return a.name

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│"a.name" │

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│"Specialty Teleconstructors Inc"│

├────────────────────────────────┤

│"Cohesant Technologies Inc" │

├────────────────────────────────┤

│"Chemfix Technologies Inc" │

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