**Final Project Queries**

**Query 1: What large acquisitions (greater than $3 billion) has Cisco made?**

MATCH (:Competing\_Company {name: "Cisco Systems"})-[:Acquired]->(a:`Acquired\_Company`)

WHERE a.`Value (USD)` > 3000000000

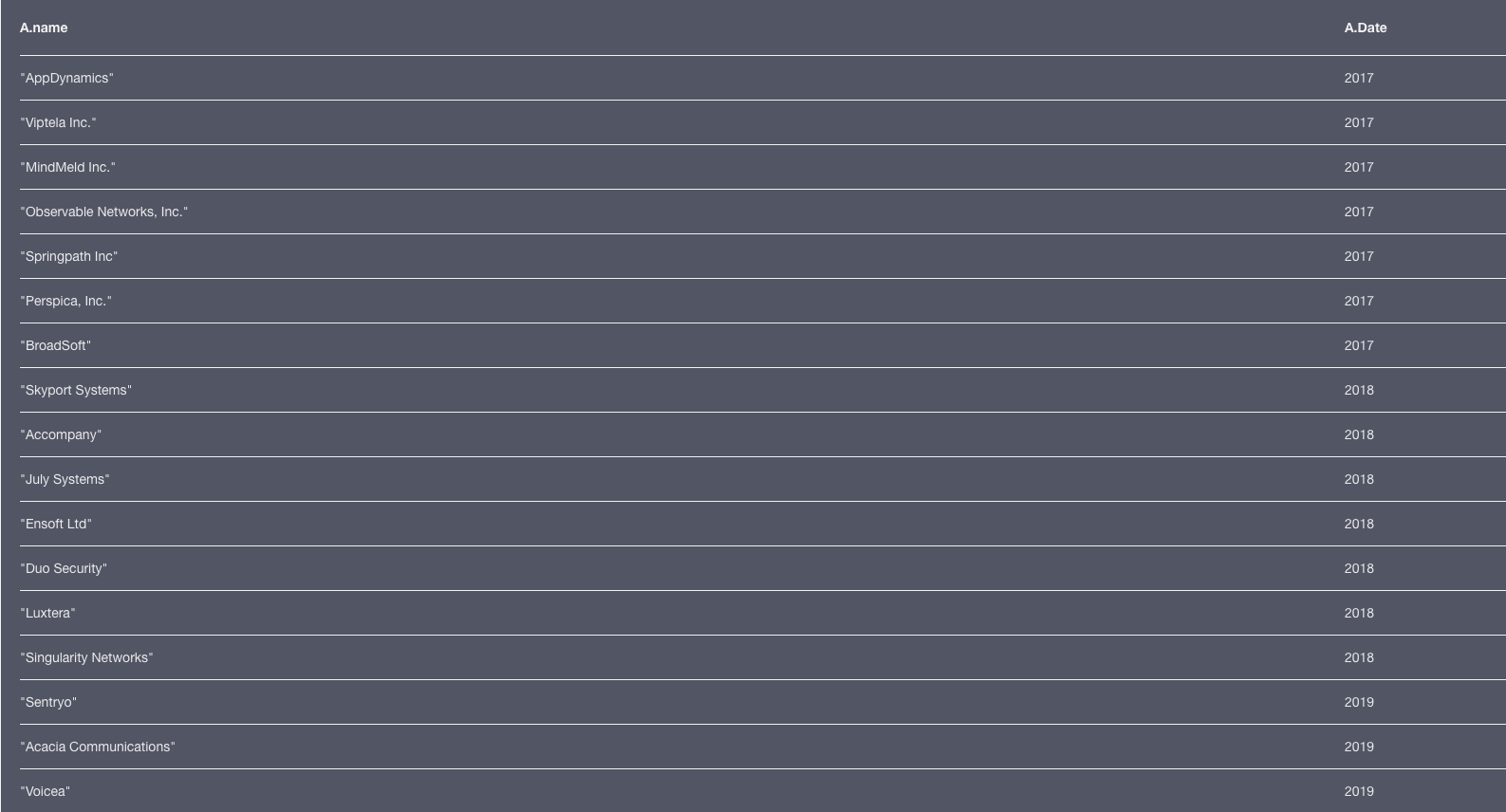
RETURN a.name AS Big\_Acquisitions, a.`Value (USD)` AS Acquisition\_Price



**Query 2: Who has Cisco acquired in the last three years?**

MATCH (A:Acquired\_Company) WHERE A.Date > 2016

RETURN A.name as Company\_Name, A.Date as Acquired\_Date



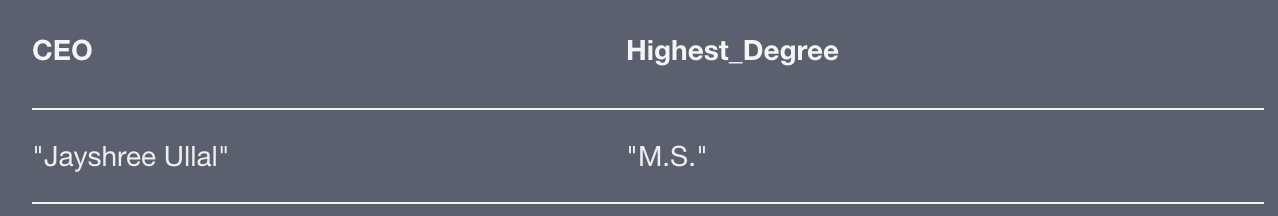
**Query 3: How many CEOs of competing companies are female and have Masters education or greater?**

**MATCH (:Competing\_Company)-[e:Employee]->(p:Person)**

**WHERE p.Gender = "Female"**

**AND ("MBA" in p.`Highest Degree` OR "M.S." in p.`Highest Degree`)**

**RETURN p.name as CEO, p.`Highest Degree` as Highest\_Degree**

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**Query 4: As a money manager designing a risk-averse portfolio, which public companies have relatively low price/earning ratio, high operating income, mid-to-large market capitalization, and relatively low volatility (beta)?**

**MATCH (c:Competing\_Company)-[:Has\_Financials]->(f:Financials)**

**WHERE exists(f.stock\_symbol)**

**AND f.operating\_income > 500000000**

**AND f.market\_cap > 1000000000**

**AND f.pe\_ratio < 20**

**AND f.beta < 1.3**

**RETURN f.name as Company, f.stock\_symbol as Stock, f.price as Current\_Price, f.beta as Volatility**

**ORDER BY Volatility**

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**Query 5: If we utilize % Overlap of competing companies to identify Cisco Systems main competitor and utilize the reason for Overlap to identify Cisco’s main business. Can we identify the total number of competing companies in the same business that Cisco has acquired?**

**MATCH ()-[c:Competitor]-() with max(c.`% Overlap`) as max\_overlap**

**MATCH ()-[c:Competitor]-(company) WHERE c.`% Overlap` = max\_overlap and not company.name ='Cisco Systems' with c.Reason as overlap\_reason**

**MATCH ()-[c:Acquired]-(aquired\_companies) WHERE c.Reason = overlap\_reason RETURN overlap\_reason, count(aquired\_companies)**

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**Query 6: Which CEOs have done the worst job in ensuring their company has a substantial online following (>20k followers) along with a positive sentiment in Twitter?**

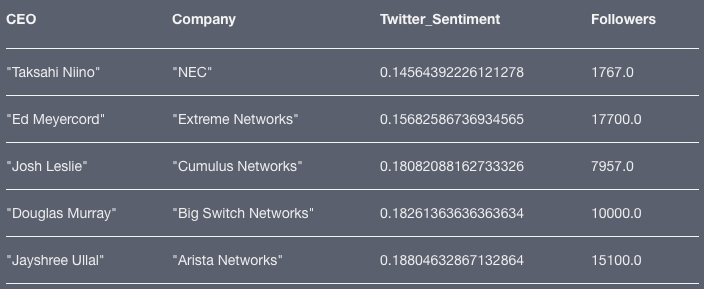
**MATCH (p:Person)<-[:Employee]-(c:Competing\_Company)-[:Social\_Media\_Presence]->(s:Social\_Media)**

**WHERE s.sentiment\_polarity < 0.2**

**AND s.`Twitter followers` < 20000**

**RETURN p.name as CEO,c.name as Company, s.sentiment\_polarity as Twitter\_Sentiment, s.`Twitter followers` as Followers**

**ORDER BY Twitter\_Sentiment**

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**Query 7: Based on products extracted from Wikipedia text, Which company is the leanest in terms of revenue per employee? Number of employees working on each product?**

**MATCH (c:Competing\_Company)-[:Provides]->(p:Products)**

**WITH c, c.`# Employees` as Employees, count(p) as product\_count**

**WHERE product\_count > 0**

**RETURN c.name as Company, product\_count,**

**Employees, (Employees/product\_count) as Employee\_per\_Product,**

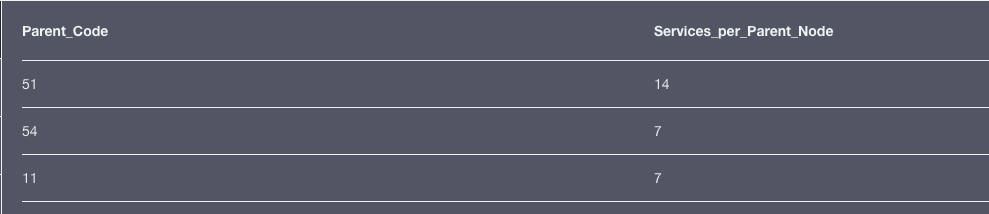
**(c.`Revenue (B)` / Employees) as Revenue\_per\_employee**

**ORDER BY (CASE Revenue\_per\_employee WHEN null THEN {} ELSE Revenue\_per\_employee END) DESC**

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**Query 8: For each 2 digit Parent code for NAICS codes, what is the total number of services provided by the companies linked to them?**

**MATCH (N:NAICS\_Code)<-[: NAICS\_Code\_Subset\_of]-(n)<-[: Company\_NAICS\_code]-(C: Competing\_Company)-[: Provides]->(S: Services) RETURN N.Code as Parent\_Code, count(S) as Services\_per\_Parent\_Node**

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