CREATE

(justin:Celebrity {name: 'Justin Bieber', career: 'Singer', nationality: 'Canadian', ethnicity: 'Caucasian', location: 'Stratford, Canada', gender: 'Male', net\_worth: 285000000}),

(scarlett:Celebrity {name: 'Scarlett Johansson', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'New York, USA', gender: 'Female', net\_worth: 165000000}),

(michael:Celebrity {name: 'Michael Jordan', career: 'Sport Star', nationality: 'American', ethnicity: 'African-American', location: 'Brooklyn, USA', gender: 'Male', net\_worth: 2200000000}),

(rihanna:Celebrity {name: 'Rihanna', career: 'Singer', nationality: 'Barbadian', ethnicity: 'African', location: 'Saint Michael, Barbados', gender: 'Female', net\_worth: 600000000}),

(tom:Celebrity {name: 'Tom Cruise', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Syracuse, USA', gender: 'Male', net\_worth: 570000000}),

(kim:Celebrity {name: 'Kim Kardashian', career: 'Reality TV Personality', nationality: 'American', ethnicity: 'Armenian', location: 'Los Angeles, USA', gender: 'Female', net\_worth: 1000000000}),

(brad:Celebrity {name: 'Brad Pitt', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Shawnee, USA', gender: 'Male', net\_worth: 300000000}),

(emma:Celebrity {name: 'Emma Watson', career: 'Actor', nationality: 'British', ethnicity: 'Caucasian', location: 'Paris, France', gender: 'Female', net\_worth: 80000000}),

(neymar:Celebrity {name: 'Neymar Jr', career: 'Sport Star', nationality: 'Brazilian', ethnicity: 'Mixed', location: 'Sao Paulo, Brazil', gender: 'Male', net\_worth: 200000000}),

(selena:Celebrity {name: 'Selena Gomez', career: 'Singer', nationality: 'American', ethnicity: 'Hispanic', location: 'Grand Prairie, USA', gender: 'Female', net\_worth: 75000000}),

(messi:Celebrity {name: 'Lionel Messi', career: 'Sport Star', nationality: 'Argentine', ethnicity: 'South American', location: 'Rosario, Argentina', gender: 'Male', net\_worth: 400000000}),

(oprah:Celebrity {name: 'Oprah Winfrey', career: 'TV Host', nationality: 'American', ethnicity: 'African-American', location: 'Kosciusko, USA', gender: 'Female', net\_worth: 2600000000}),

(will:Celebrity {name: 'Will Smith', career: 'Actor', nationality: 'American', ethnicity: 'African-American', location: 'Philadelphia, USA', gender: 'Male', net\_worth: 350000000}),

(kylie:Celebrity {name: 'Kylie Jenner', career: 'Reality TV Personality', nationality: 'American', ethnicity: 'Caucasian', location: 'Los Angeles, USA', gender: 'Female', net\_worth: 900000000}),

(jay:Celebrity {name: 'Jay-Z', career: 'Rapper', nationality: 'American', ethnicity: 'African-American', location: 'Brooklyn, USA', gender: 'Male', net\_worth: 1000000000}),

(katy:Celebrity {name: 'Katy Perry', career: 'Singer', nationality: 'American', ethnicity: 'Caucasian', location: 'Santa Barbara, USA', gender: 'Female', net\_worth: 330000000}),

(leo:Celebrity {name: 'Leonardo DiCaprio', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Los Angeles, USA', gender: 'Male', net\_worth: 260000000}),

(angie:Celebrity {name: 'Angelina Jolie', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Los Angeles, USA', gender: 'Female', net\_worth: 120000000}),

(kanye:Celebrity {name: 'Kanye West', career: 'Rapper', nationality: 'American', ethnicity: 'African-American', location: 'Chicago, USA', gender: 'Male', net\_worth: 1800000000}),

(beyonce:Celebrity {name: 'Beyoncé', career: 'Singer', nationality: 'American', ethnicity: 'African-American', location: 'Houston, USA', gender: 'Female', net\_worth: 420000000}),

(chris:Celebrity {name: 'Chris Hemsworth', career: 'Actor', nationality: 'Australian', ethnicity: 'Caucasian', location: 'Melbourne, Australia', gender: 'Male', net\_worth: 130000000}),

(gal:Celebrity {name: 'Gal Gadot', career: 'Actor', nationality: 'Israeli', ethnicity: 'Jewish', location: 'Petah Tikva, Israel', gender: 'Female', net\_worth: 30000000}),

(ryan:Celebrity {name: 'Ryan Reynolds', career: 'Actor', nationality: 'Canadian', ethnicity: 'Caucasian', location: 'Vancouver, Canada', gender: 'Male', net\_worth: 150000000}),

(margot:Celebrity {name: 'Margot Robbie', career: 'Actor', nationality: 'Australian', ethnicity: 'Caucasian', location: 'Dalby, Australia', gender: 'Female', net\_worth: 26000000}),

(eminem:Celebrity {name: 'Eminem', career: 'Rapper', nationality: 'American', ethnicity: 'Caucasian', location: 'Detroit, USA', gender: 'Male', net\_worth: 230000000}),

(drake:Celebrity {name: 'Drake', career: 'Rapper', nationality: 'Canadian', ethnicity: 'African-American', location: 'Toronto, Canada', gender: 'Male', net\_worth: 180000000}),

(adele:Celebrity {name: 'Adele', career: 'Singer', nationality: 'British', ethnicity: 'Caucasian', location: 'London, England', gender: 'Female', net\_worth: 190000000}),

(david:Celebrity {name: 'David Beckham', career: 'Sport Star', nationality: 'British', ethnicity: 'Caucasian', location: 'London, England', gender: 'Male', net\_worth: 450000000}),

(priyanka:Celebrity {name: 'Priyanka Chopra', career: 'Actor', nationality: 'Indian', ethnicity: 'South Asian', location: 'Jamshedpur, India', gender: 'Female', net\_worth: 50000000}),

(ellen:Celebrity {name: 'Ellen DeGeneres', career: 'TV Host', nationality: 'American', ethnicity: 'Caucasian', location: 'Metairie, USA', gender: 'Female', net\_worth: 370000000}),

(mark:Celebrity {name: 'Mark Wahlberg', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Dorchester, USA', gender: 'Male', net\_worth: 300000000}),

(vin:Celebrity {name: 'Vin Diesel', career: 'Actor', nationality: 'American', ethnicity: 'Multiracial', location: 'Alameda County, USA', gender: 'Male', net\_worth: 225000000}),

(ben:Celebrity {name: 'Ben Affleck', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Berkeley, USA', gender: 'Male', net\_worth: 150000000}),

(mila:Celebrity {name: 'Mila Kunis', career: 'Actor', nationality: 'American', ethnicity: 'White', location: 'Chernivtsi, Ukraine', gender: 'Female', net\_worth: 75000000}),

(jennifer:Celebrity {name: 'Jennifer Lawrence', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Indian Hills, USA', gender: 'Female', net\_worth: 160000000}),

(keanu:Celebrity {name: 'Keanu Reeves', career: 'Actor', nationality: 'Canadian', ethnicity: 'Mixed', location: 'Beirut, Lebanon', gender: 'Male', net\_worth: 360000000}),

(shah:Celebrity {name: 'Shah Rukh Khan', career: 'Actor', nationality: 'Indian', ethnicity: 'Asian', location: 'New Delhi, India', gender: 'Male', net\_worth: 600000000}),

(george:Celebrity {name: 'George Clooney', career: 'Actor', nationality: 'American', ethnicity: 'White', location: 'Lexington, USA', gender: 'Male', net\_worth: 500000000}),

(matt:Celebrity {name: 'Matt Damon', career: 'Actor', nationality: 'American', ethnicity: 'White', location: 'Cambridge, USA', gender: 'Male', net\_worth: 170000000}),

(johnny:Celebrity {name: 'Johnny Depp', career: 'Actor', nationality: 'American', ethnicity: 'White', location: 'Owensboro, USA', gender: 'Male', net\_worth: 200000000}),

(taylor:Celebrity {name: 'Taylor Swift', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'Reading, USA', gender: 'Female', net\_worth: 400000000}),

(hugh:Celebrity {name: 'Hugh Jackman', career: 'Actor', nationality: 'Australian', ethnicity: 'White', location: 'Sydney, Australia', gender: 'Male', net\_worth: 150000000}),

(jenniferlopez:Celebrity {name: 'Jennifer Lopez', career: 'Singer', nationality: 'American', ethnicity: 'Hispanic', location: 'The Bronx, USA', gender: 'Female', net\_worth: 400000000}),

(ariana:Celebrity {name: 'Ariana Grande', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'Boca Raton, USA', gender: 'Female', net\_worth: 180000000}),

(madonna:Celebrity {name: 'Madonna', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'Bay City, USA', gender: 'Female', net\_worth: 850000000}),

(kurt:Celebrity {name: 'Kurt Cobain', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'Aberdeen, USA', gender: 'Male', net\_worth: 100000000}),

(stevie:Celebrity {name: 'Stevie Wonder', career: 'Singer', nationality: 'American', ethnicity: 'Black', location: 'Saginaw, USA', gender: 'Male', net\_worth: 110000000}),

(bob:Celebrity {name: 'Bob Marley', career: 'Singer', nationality: 'Jamaican', ethnicity: 'Black', location: 'Nine Mile, Jamaica', gender: 'Male', net\_worth: 130000000}),

(justintimberlake:Celebrity {name: 'Justin Timberlake', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'Memphis, USA', gender: 'Male', net\_worth: 250000000}),

(chrisbrown:Celebrity {name: 'Chris Brown', career: 'Singer', nationality: 'American', ethnicity: 'Black', location: 'Tappahannock, USA', gender: 'Male', net\_worth: 50000000}),

(nicki:Celebrity {name: 'Nicki Minaj', career: 'Singer', nationality: 'Trinidadian', ethnicity: 'Black', location: 'Saint James, Trinidad and Tobago', gender: 'Female', net\_worth: 85000000}),

(britney:Celebrity {name: 'Britney Spears', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'McComb, USA', gender: 'Female', net\_worth: 115000000}),

(elvis:Celebrity {name: 'Elvis Presley', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'Tupelo, USA', gender: 'Male', net\_worth: 235000000}),

(drizzy:Celebrity {name: 'Drake', career: 'Rapper', nationality: 'Canadian', ethnicity: 'Black', location: 'Toronto, Canada', gender: 'Male', net\_worth: 180000000}),

(cardi:Celebrity {name: 'Cardi B', career: 'Rapper', nationality: 'American', ethnicity: 'Hispanic', location: 'The Bronx, USA', gender: 'Female', net\_worth: 24000000}),

(kendrick:Celebrity {name: 'Kendrick Lamar', career: 'Rapper', nationality: 'American', ethnicity: 'Black', location: 'Compton, USA', gender: 'Male', net\_worth: 75000000}),

(cent:Celebrity {name: '50 Cent', career: 'Rapper', nationality: 'American', ethnicity: 'Black', location: 'Queens, USA', gender: 'Male', net\_worth: 30000000}),

(billie:Celebrity {name: 'Billie Eilish', career: 'Singer', nationality: 'American', ethnicity: 'White', location: 'Los Angeles, USA', gender: 'Female', net\_worth: 53000000}),

(lizzo:Celebrity {name: 'Lizzo', career: 'Singer', nationality: 'American', ethnicity: 'Black', location: 'Detroit, USA', gender: 'Female', net\_worth: 10000000}),

(harry:Celebrity {name: 'Harry Styles', career: 'Singer', nationality: 'British', ethnicity: 'White', location: 'Redditch, England', gender: 'Male', net\_worth: 80000000}),

(ed:Celebrity {name: 'Ed Sheeran', career: 'Singer', nationality: 'British', ethnicity: 'White', location: 'Halifax, England', gender: 'Male', net\_worth: 220000000}),

(louis:Celebrity {name: 'Louis Tomlinson', career: 'Singer', nationality: 'British', ethnicity: 'White', location: 'Doncaster, England', gender: 'Male', net\_worth: 70000000}),

(niall:Celebrity {name: 'Niall Horan', career: 'Singer', nationality: 'Irish', ethnicity: 'White', location: 'Mullingar, Ireland', gender: 'Male', net\_worth: 70000000}),

(zayn:Celebrity {name: 'Zayn Malik', career: 'Singer', nationality: 'British', ethnicity: 'Mixed', location: 'Bradford, England', gender: 'Male', net\_worth: 75000000}),

(shawn:Celebrity {name: 'Shawn Mendes', career: 'Singer', nationality: 'Canadian', ethnicity: 'White', location: 'Pickering, Canada', gender: 'Male', net\_worth: 40000000}),

(camila:Celebrity {name: 'Camila Cabello', career: 'Singer', nationality: 'Cuban', ethnicity: 'Hispanic', location: 'Cojimar, Cuba', gender: 'Female', net\_worth: 14000000}),

(georgec:Celebrity {name: 'George Clooney', career: 'Actor', nationality: 'American', ethnicity: 'White', location: 'Lexington, USA', gender: 'Male', net\_worth: 500000000}),

(bradp:Celebrity {name: 'Brad Pitt', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Shawnee, USA', gender: 'Male', net\_worth: 300000000}),

(tomh:Celebrity {name: 'Tom Hanks', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Concord, USA', gender: 'Male', net\_worth: 400000000}),

(willf:Celebrity {name: 'Will Ferrell', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Irvine, USA', gender: 'Male', net\_worth: 160000000}),

(robertd:Celebrity {name: 'Robert Downey Jr.', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'New York City, USA', gender: 'Male', net\_worth: 300000000}),

(johnnyc:Celebrity {name: 'Johnny Carson', career: 'TV Host', nationality: 'American', ethnicity: 'Caucasian', location: 'Corning, USA', gender: 'Male', net\_worth: 300000000}),

(georgeb:Celebrity {name: 'George Burns', career: 'Comedian', nationality: 'American', ethnicity: 'Caucasian', location: 'New York City, USA', gender: 'Male', net\_worth: 350000000}),

(meryls:Celebrity {name: 'Meryl Streep', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Summit, USA', gender: 'Female', net\_worth: 160000000}),

(angelinaj:Celebrity {name: 'Angelina Jolie', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Los Angeles, USA', gender: 'Female', net\_worth: 120000000}),

(sandra:Celebrity {name: 'Sandra Bullock', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Arlington, USA', gender: 'Female', net\_worth: 200000000}),

(jackn:Celebrity {name: 'Jack Nicholson', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Neptune City, USA', gender: 'Male', net\_worth: 400000000}),

(ryanr:Celebrity {name: 'Ryan Reynolds', career: 'Actor', nationality: 'Canadian', ethnicity: 'Caucasian', location: 'Vancouver, Canada', gender: 'Male', net\_worth: 150000000}),

(leodic:Celebrity {name: 'Leonardo DiCaprio', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Los Angeles, USA', gender: 'Male', net\_worth: 260000000}),

(natalie:Celebrity {name: 'Natalie Portman', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'Jerusalem, Israel', gender: 'Female', net\_worth: 90000000}),

(cameron:Celebrity {name: 'Cameron Diaz', career: 'Actor', nationality: 'American', ethnicity: 'Caucasian', location: 'San Diego, USA', gender: 'Female', net\_worth: 140000000}),

(whoopi:Celebrity {name: 'Whoopi Goldberg', career: 'Actor', nationality: 'American', ethnicity: 'African-American', location: 'New York City, USA', gender: 'Female', net\_worth: 60000000}),

(alex:Celebrity {name: 'Alex Rodriguez', career: 'Sport Star', nationality: 'American', ethnicity: 'Hispanic', location: 'New York City, USA', gender: 'Male', net\_worth: 350000000}),

(roger:Celebrity {name: 'Roger Federer', career: 'Sport Star', nationality: 'Swiss', ethnicity: 'White', location: 'Basel, Switzerland', gender: 'Male', net\_worth: 450000000}),

(maria:Celebrity {name: 'Maria Sharapova', career: 'Sport Star', nationality: 'Russian', ethnicity: 'White', location: 'Nyagan, Russia', gender: 'Female', net\_worth: 195000000}),

(lebron:Celebrity {name: 'LeBron James', career: 'Sport Star', nationality: 'American', ethnicity: 'African-American', location: 'Akron, USA', gender: 'Male', net\_worth: 500000000}),

(tiger:Celebrity {name: 'Tiger Woods', career: 'Sport Star', nationality: 'American', ethnicity: 'African-American', location: 'Cypress, USA', gender: 'Male', net\_worth: 800000000}),

(serena:Celebrity {name: 'Serena Williams', career: 'Sport Star', nationality: 'American', ethnicity: 'African-American', location: 'Saginaw, USA', gender: 'Female', net\_worth: 210000000})

Create

(lizzo)-[:KNOWS {weight: 0.3333}]->(rihanna),

(harry)-[:KNOWS {weight: 0.6667}]->(scarlett),

(ed)-[:KNOWS {weight: 0.3333}]->(rihanna),

(rihanna)-[:KNOWS {weight: 0.3333}]->(ed),

(louis)-[:KNOWS {weight: 0.3333}]->(justin),

(niall)-[:KNOWS {weight: 0.3333}]->(justin),

(zayn)-[:KNOWS {weight: 0.3333}]->(justin),

(shawn)-[:KNOWS {weight: 0.6667}]->(justin),

(camila)-[:KNOWS {weight: 0.6667}]->(justin),

(justin)-[:KNOWS {weight: 1}]->(rihanna),

(scarlett)-[:KNOWS {weight: 0.6667}]->(tom),

(michael)-[:KNOWS {weight: 0.3333}]->(rihanna),

(kim)-[:KNOWS {weight: 0.01}]->(rihanna),

(brad)-[:KNOWS {weight: 0.3333}]->(scarlett),

(neymar)-[:KNOWS {weight: 0.3333}]->(rihanna),

(selena)-[:KNOWS {weight: 0.6667}]->(justin),

(messi)-[:KNOWS {weight: 0.6667}]->(neymar),

(will)-[:KNOWS {weight: 0.6667}]->(kim),

(jay)-[:KNOWS {weight: 0.6667}]->(kim),

(leo)-[:KNOWS {weight: 1}]->(scarlett),

(angie)-[:KNOWS {weight: 0.6667}]->(brad),

(kanye)-[:KNOWS {weight: 0.3333}]->(rihanna),

(beyonce)-[:KNOWS {weight: 1}]->(rihanna),

(chris)-[:KNOWS {weight: 0.3333}]->(scarlett),

(gal)-[:KNOWS {weight: 0.6667}]->(leo),

(ryan)-[:KNOWS {weight: 0.6667}]->(scarlett),

(margot)-[:KNOWS {weight: 0.3333}]->(leo),

(david)-[:KNOWS {weight: 0.6667}]->(tom),

(priyanka)-[:KNOWS {weight: 1}]->(rihanna),

(ellen)-[:KNOWS {weight: 1}]->(scarlett),

(mark)-[:KNOWS {weight: 0.3333}]->(rihanna),

(vin)-[:KNOWS {weight: 0.6667}]->(brad),

(ben)-[:KNOWS {weight: 0.3333}]->(tom),

(mila)-[:KNOWS {weight: 0.01}]->(brad),

(jennifer)-[:KNOWS {weight: 1}]->(scarlett),

(keanu)-[:KNOWS {weight: 0.01}]->(brad),

(shah)-[:KNOWS {weight: 0.01}]->(priyanka),

(george)-[:KNOWS {weight: 0.6667}]->(brad),

(matt)-[:KNOWS {weight: 0.3333}]->(rihanna),

(johnny)-[:KNOWS {weight: 0.6667}]->(leo),

(taylor)-[:KNOWS {weight: 0.6667}]->(justin),

(hugh)-[:KNOWS {weight: 0.6667}]->(brad),

(jenniferlopez)-[:KNOWS {weight: 0.6667}]->(rihanna),

(ariana)-[:KNOWS {weight: 0.6667}]->(justin),

(madonna)-[:KNOWS {weight: 0.6667}]->(rihanna),

(kurt)-[:KNOWS {weight: 0.01}]->(justin),

(stevie)-[:KNOWS {weight: 0.01}]->(rihanna),

(bob)-[:KNOWS {weight: 0.6667}]->(rihanna),

(justintimberlake)-[:KNOWS {weight: 0.6667}]->(justin),

(chrisbrown)-[:KNOWS {weight: 0.01}]->(rihanna),

(nicki)-[:KNOWS {weight: 0.6667}]->(rihanna),

(britney)-[:KNOWS {weight: 0.6667}]->(justin),

(elvis)-[:KNOWS {weight: 0.6667}]->(rihanna),

(drizzy)-[:KNOWS {weight: 1}]->(rihanna),

(cardi)-[:KNOWS {weight: 0.6667}]->(rihanna),

(kendrick)-[:KNOWS {weight: 0.01}]->(rihanna),

(cent)-[:KNOWS {weight: 0.01}]->(rihanna),

(billie)-[:KNOWS {weight: 0.6667}]->(rihanna),

(lizzo)-[:KNOWS {weight: 0.01}]->(rihanna),

(oprah)-[:KNOWS {weight: 0.8}]->(leo),

(michael)-[:KNOWS {weight: 0.5}]->(jay),

(rihanna)-[:KNOWS {weight: 0.7}]->(george),

(ellen)-[:KNOWS {weight: 0.6}]->(tiger),

(beyonce)-[:KNOWS {weight: 0.8}]->(tom),

(drake)-[:KNOWS {weight: 0.5}]->(scarlett),

(kim)-[:KNOWS {weight: 0.5}]->(michael),

(lebron)-[:KNOWS {weight: 0.4}]->(rihanna),

(jennifer)-[:KNOWS {weight: 0.7}]->(kanye),

(oprah)-[:KNOWS {weight: 0.7}]->(madonna),

(beyonce)-[:KNOWS {weight: 0.6}]->(leonardo),

(kim)-[:KNOWS {weight: 0.4}]->(ryan),

(margot)-[:KNOWS {weight: 0.5}]->(ed),

(jay)-[:KNOWS {weight: 0.6}]->(leonardo),

(justin)-[:KNOWS {weight: 0.5}]->(keanu),

(kendrick)-[:KNOWS {weight: 0.6}]->(scarlett),

(rihanna)-[:KNOWS {weight: 0.8}]->(oprah),

(jay)-[:KNOWS {weight: 0.5}]->(michael),

(george)-[:KNOWS {weight: 0.7}]->(rihanna),

(tiger)-[:KNOWS {weight: 0.6}]->(ellen),

(tom)-[:KNOWS {weight: 0.8}]->(beyonce),

(drake)-[:KNOWS {weight: 0.5}]->(scarlett),

(michael)-[:KNOWS {weight: 0.5}]->(kim),

(kanye)-[:KNOWS {weight: 0.7}]->(jennifer),

(madonna)-[:KNOWS {weight: 0.7}]->(oprah),

(leonardo)-[:KNOWS {weight: 0.6}]->(beyonce),

(kim)-[:KNOWS {weight: 0.4}]->(ryan),

(margot)-[:KNOWS {weight: 0.5}]->(ed),

(jay)-[:KNOWS {weight: 0.6}]->(leonardo)

-------------------------------------------------------------------------------------------------

**Pathfinding-Dijkstra**

CALL gds.graph.project(

'myGraph1',

'Celebrity',

'KNOWS',

{

relationshipProperties: 'weight'

}

)

MATCH (source:Celebrity {name: 'Justin Bieber'}), (target:Celebrity {name: 'George Clooney'})

CALL gds.shortestPath.dijkstra.stream('myGraph1', {

sourceNode: source,

targetNode: target,

relationshipWeightProperty: 'weight'

})

YIELD index, sourceNode, targetNode, totalCost, nodeIds, costs, path

RETURN

index,

gds.util.asNode(sourceNode).name AS sourceNodeName,

gds.util.asNode(targetNode).name AS targetNodeName,

totalCost,

[nodeId IN nodeIds | gds.util.asNode(nodeId).name] AS nodeNames,

costs,

nodes(path) as path

order by index

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**Centrality - Degree Centrality**

CALL gds.graph.project(

'myGraph2',

'Celebrity',

{

KNOWS: {

orientation: 'REVERSE',

properties: ['weight']

}

}

)

CALL gds.degree.stream('myGraph2')

YIELD nodeId, weight

RETURN gds.util.asNode(nodeId).name AS name, weight AS weights

ORDER BY weights DESC, name DESC

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**Similarity**

CALL gds.graph.project(

'myGraph3',

'Celebrity',

'KNOWS',

{

relationshipProperties: 'weight'

}

)

CALL gds.nodeSimilarity.stream('myGraph3')

YIELD node1, node2, similarity

RETURN gds.util.asNode(node1).name AS Person1, gds.util.asNode(node2).name AS Person2, similarity

ORDER BY similarity DESCENDING, Person1, Person2

**Community Detection**

CALL gds.graph.project( 'myGraph4', 'Celebrity',

{ KNOWS: { orientation: 'UNDIRECTED' } }, { nodeProperties: 'net\_worth', relationshipProperties: 'weight' } )

CALL gds.louvain.stream('myGraph4') YIELD nodeId, communityId, intermediateCommunityIds RETURN gds.util.asNode(nodeId).name AS name, communityId, intermediateCommunityIds ORDER BY name ASC