

Objetivo

Ayudar en la gestión, análisis y exploración de información relacionada con la industria cinematográfica, permitiendo consultas complejas y descubriendo patrones y relaciones interesantes.

Introducción

Una base de datos de Neo4j de películas y sus participantes puede ser utilizada para gestionar y analizar información relacionada con películas, y sus participantes.

Neo4j es una base de datos de grafos que permite representar las relaciones entre los datos de manera eficiente y realizar consultas complejas.

Ayuda en:

Búsqueda y consulta de información: Puedes realizar consultas para buscar información sobre películas específicas, actores o directores. Por ejemplo, puedes obtener una lista de todas las películas en las que un actor ha participado o encontrar las películas dirigidas por un director en particular.

Análisis de relaciones: La base de datos de Neo4j permite representar las relaciones entre los diferentes elementos de manera intuitiva. Puedes explorar las relaciones entre actores y películas, como quiénes han trabajado juntos en varias películas o quiénes han interpretado roles similares. Esto puede ser útil para descubrir patrones interesantes o identificar colaboraciones frecuentes.

Recomendaciones personalizadas: Con la información almacenada en la base de datos, puedes utilizar algoritmos de recomendación para ofrecer recomendaciones personalizadas a los usuarios. Por ejemplo, puedes recomendar películas similares a las que un usuario ha visto o sugerir actores o directores basados en las preferencias del usuario.

CREACION DE LA BASE DE DATOS

Creación de la película ‘The Matrix’, personas y sus relaciones

The image displays the Neo4j Browser interface, showing the creation of a database for 'The Matrix' and its visualization.

Top Panel: Cypher Queries

```
1 CREATE (TheMatrix:Movie {title:'The Matrix', released:1999, tagline:'Welcome to the Real World'})
2 CREATE (Keanu:Person {name:'Keanu Reeves', born:1964})
3 CREATE (Carrie:Person {name:'Carrie-Anne Moss', born:1967})
4 CREATE (Laurence:Person {name:'Laurence Fishburne', born:1961})
5 CREATE (Hugo:Person {name:'Hugo Weaving', born:1960})
6 CREATE (LillyW:Person {name:'Lilly Wachowski', born:1967})
7 CREATE (LanaW:Person {name:'Lana Wachowski', born:1965})
8 CREATE (JoelS:Person {name:'Joel Silver', born:1952})
9 CREATE
10 (Keanu)-[:ACTED_IN {roles:['Neo']}]>-(TheMatrix),
11 (Carrie)-[:ACTED_IN {roles:['Trinity']}]>-(TheMatrix),
12 (Laurence)-[:ACTED_IN {roles:['Morpheus']}]>-(TheMatrix),
13 (Hugo)-[:ACTED_IN {roles:['Agent Smith']}]>-(TheMatrix),
14 (LillyW)-[:DIRECTED]>-(TheMatrix),
15 (LanaW)-[:DIRECTED]>-(TheMatrix),
16 (JoelS)-[:PRODUCED]>-(TheMatrix)
```

Bottom Panel: Graph Visualization

The graph shows the central node 'The Matrix' (blue circle) connected to several other nodes (orange circles) via directed relationships:

- Directed Relationships:** Directed from 'The Matrix' to 'Lilly Wachowski', 'Hugo Weaving', 'Laurence Fishburne', 'Carrie-A', 'Keanu Reeves', 'Emil Eifrem', and 'Joel Silver'.
- Undirected Relationships:** Undirected between 'The Matrix' and 'Lana Wachowski'.

Overview Panel:

- Node labels:** (9) Person (8), Movie (1)
- Relationship types:** (8) ACTED_IN (5), DIRECTED (2), PRODUCED (1)
- Displaying 9 nodes, 8 relationships.

DBMS Panel:

Username: neo4j
Roles: admin, PUBLIC
Admin: server user list, server user add, server disconnect
Disconnect: server disconnect

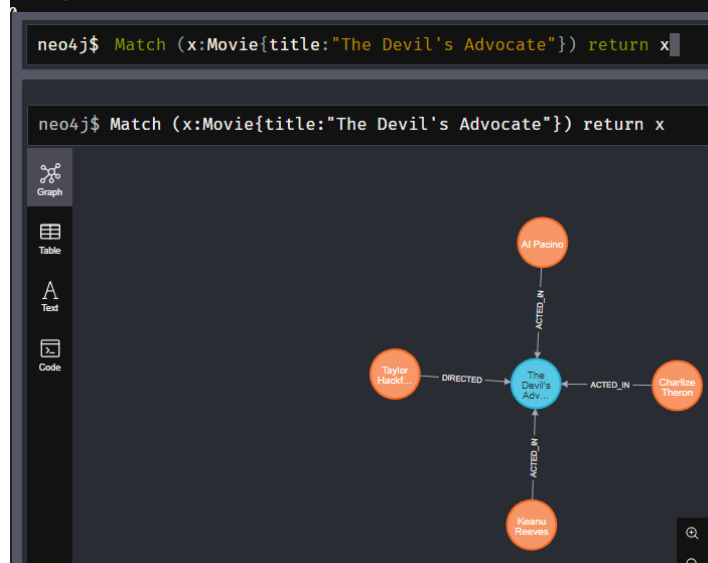
Creación de película 'The Matrix Revolutions' y relaciones

```
30
31 CREATE (TheMatrixRevolutions:Movie {title:'The Matrix Revolutions', released:2003, tagline:'Everything that has a
beginning has an end'})
32 CREATE
33 (Keanu)-[:ACTED_IN {roles:['Neo']}]→(TheMatrixRevolutions),
34 (Carrie)-[:ACTED_IN {roles:['Trinity']}]→(TheMatrixRevolutions),
35 (Laurence)-[:ACTED_IN {roles:['Morpheus']}]→(TheMatrixRevolutions),
36 (Hugo)-[:ACTED_IN {roles:['Agent Smith']}]→(TheMatrixRevolutions),
37 (LillyW)-[:DIRECTED]→(TheMatrixRevolutions),
38 (LanaW)-[:DIRECTED]→(TheMatrixRevolutions),
39 (JoelS)-[:PRODUCED]→(TheMatrixRevolutions)
```



creación de la película "the devil is Advocate", creación de sus participantes, y su relación

```
1 CREATE (TheDevilsAdvocate:Movie {title:"The Devil's Advocate", released:1997, tagline:'Evil has its winning
ways'})
2 CREATE (Charlize:Person {name:'Charlize Theron', born:1975})
3 CREATE (Al:Person {name:'Al Pacino', born:1940})
4 CREATE (Taylor:Person {name:'Taylor Hackford', born:1944})
5 CREATE
6 (Keanu)-[:ACTED_IN {roles:['Kevin Lomax']}]→(TheDevilsAdvocate),
7 (Charlize)-[:ACTED_IN {roles:['Mary Ann Lomax']}]→(TheDevilsAdvocate),
8 (Al)-[:ACTED_IN {roles:['John Milton']}]→(TheDevilsAdvocate),
9 (Taylor)-[:DIRECTED]→(TheDevilsAdvocate)
```



Creación de la película “A few Good Men”, creación de sus participantes y sus relaciones

```
51 CREATE (AFewGoodMen:Movie {title:"A Few Good Men", released:1992, tagline:"In the heart of the nation's capital, in a courthouse of the U.S. government, one man will stop at nothing to keep his honor, and one will stop at nothing to find the truth."})
52 CREATE (TomC:Person {name:'Tom Cruise', born:1962})
53 CREATE (JackN:Person {name:'Jack Nicholson', born:1937})
54 CREATE (DemiM:Person {name:'Demi Moore', born:1962})
55 CREATE (KevinB:Person {name:'Kevin Bacon', born:1958})
56 CREATE (KieferS:Person {name:'Kiefer Sutherland', born:1966})
57 CREATE (NoahW:Person {name:'Noah Wyle', born:1971})
58 CREATE (CubaG:Person {name:'Cuba Gooding Jr.', born:1968})
59 CREATE (KevinP:Person {name:'Kevin Pollak', born:1957})
60 CREATE (JTW:Person {name:'J.T. Walsh', born:1943})
61 CREATE (JamesM:Person {name:'James Marshall', born:1967})
62 CREATE (ChristopherG:Person {name:'Christopher Guest', born:1948})
63 CREATE (RobR:Person {name:'Rob Reiner', born:1947})
64 CREATE (AaronS:Person {name:'Aaron Sorkin', born:1961})
65 CREATE
66 (TomC)-[:ACTED_IN {roles:['Lt. Daniel Kaffee']}]>(AFewGoodMen),
67 (JackN)-[:ACTED_IN {roles:['Col. Nathan R. Jessup']}]>(AFewGoodMen),
68 (DemiM)-[:ACTED_IN {roles:['Lt. Cdr. JoAnne Galloway']}]>(AFewGoodMen),
69 (KevinB)-[:ACTED_IN {roles:['Capt. Jack Ross']}]>(AFewGoodMen),
70 (KieferS)-[:ACTED_IN {roles:['Lt. Jonathan Kendrick']}]>(AFewGoodMen),
71 (NoahW)-[:ACTED_IN {roles:['Cpl. Jeffrey Barnes']}]>(AFewGoodMen),
72 (CubaG)-[:ACTED_IN {roles:['Cpl. Carl Hammaker']}]>(AFewGoodMen),
73 (KevinP)-[:ACTED_IN {roles:['Lt. Sam Weinberg']}]>(AFewGoodMen),
74 (JTW)-[:ACTED_IN {roles:['Lt. Col. Matthew Andrew Markinson']}]>(AFewGoodMen),
75 (JamesM)-[:ACTED_IN {roles:['Pfc. Loudon Downey']}]>(AFewGoodMen),
76 (ChristopherG)-[:ACTED_IN {roles:['Dr. Stone']}]>(AFewGoodMen),
77 (AaronS)-[:ACTED_IN {roles:['Man in Bar']}]>(AFewGoodMen),
78 (RobR)-[:DIRECTED]>(AFewGoodMen),
79 (AaronS)-[:WROTE]>(AFewGoodMen)
```



Creación de la película “Top Gun”, creación de sus personajes y sus relaciones

```

81 CREATE (TopGun:Movie {title:"Top Gun", released:1986, tagline:'I feel the need, the need for speed.'})
82 CREATE (KellyM:Person {name:'Kelly McGillis', born:1957})
83 CREATE (ValK:Person {name:'Val Kilmer', born:1959})
84 CREATE (AnthonyE:Person {name:'Anthony Edwards', born:1962})
85 CREATE (TomS:Person {name:'Tom Skerritt', born:1933})
86 CREATE (MegR:Person {name:'Meg Ryan', born:1961})
87 CREATE (TonyS:Person {name:'Tony Scott', born:1944})
88 CREATE (JimC:Person {name:'Jim Cash', born:1941})

```

CREATE

```

(TomC)-[:ACTED_IN {roles:['Maverick']}]→(TopGun),
(KellyM)-[:ACTED_IN {roles:['Charlie']}]→(TopGun),
(ValK)-[:ACTED_IN {roles:['Iceman']}]→(TopGun),
(AnthonyE)-[:ACTED_IN {roles:['Goose']}]→(TopGun),
(TomS)-[:ACTED_IN {roles:['Viper']}]→(TopGun),
(MegR)-[:ACTED_IN {roles:['Carole']}]→(TopGun),
(TonyS)-[:DIRECTED]→(TopGun),
(JimC)-[:WROTE]→(TopGun)

```

Creación de la película

```

CREATE (JerryMaguire:Movie {title:'Jerry Maguire', released:2000, tagline:'The rest of his life begins now.'})
CREATE (ReneeZ:Person {name:'Renee Zellweger', born:1969})
CREATE (KellyP:Person {name:'Kelly Preston', born:1962})
CREATE (JerryO:Person {name:"Jerry O'Connell", born:1974})
CREATE (JayM:Person {name:'Jay Mohr', born:1970})
CREATE (BonnieH:Person {name:'Bonnie Hunt', born:1961})
CREATE (ReginaK:Person {name:'Regina King', born:1971})
CREATE (JonathanL:Person {name:'Jonathan Lipnicki', born:1996})
CREATE (CameronC:Person {name:'Cameron Crowe', born:1957})

```

CREATE

```

(TomC)-[:ACTED_IN {roles:['Jerry Maguire']}]→(JerryMaguire),
(CubaG)-[:ACTED_IN {roles:['Rod Tidwell']}]→(JerryMaguire),
(ReneeZ)-[:ACTED_IN {roles:['Dorothy Boyd']}]→(JerryMaguire),
(KellyP)-[:ACTED_IN {roles:['Avery Bishop']}]→(JerryMaguire),
(JerryO)-[:ACTED_IN {roles:['Frank Cushman']}]→(JerryMaguire),
(JayM)-[:ACTED_IN {roles:['Bob Sugar']}]→(JerryMaguire),
(BonnieH)-[:ACTED_IN {roles:['Laurel Boyd']}]→(JerryMaguire),
(ReginaK)-[:ACTED_IN {roles:['Marcee Tidwell']}]→(JerryMaguire),
(JonathanL)-[:ACTED_IN {roles:['Ray Boyd']}]→(JerryMaguire),
(CameronC)-[:DIRECTED]→(JerryMaguire),
(CameronC)-[:PRODUCED]→(JerryMaguire),

```

```

(CameronC)-[:WROTE]→(JerryMaguire)

```

Creación de “Stand bu me”

```

CREATE (StandByMe:Movie {title:"Stand By Me", released:1986, tagline:"For some, it's the last real taste of innocence, and the first real taste of life. But for everyone, it's the time that memories are made of."})
CREATE (RiverP:Person {name:'River Phoenix', born:1970})
CREATE (CoreyF:Person {name:'Corey Feldman', born:1971})
CREATE (WilW:Person {name:'Wil Wheaton', born:1972})
CREATE (JohnC:Person {name:'John Cusack', born:1966})
CREATE (MarshallB:Person {name:'Marshall Bell', born:1942})
CREATE
(WilW)-[:ACTED_IN {roles:['Gordie Lachance']}]→(StandByMe),
(RiverP)-[:ACTED_IN {roles:['Chris Chambers']}]→(StandByMe),
(JerryO)-[:ACTED_IN {roles:['Vern Tessio']}]→(StandByMe),
(CoreyF)-[:ACTED_IN {roles:['Teddy Duchamp']}]→(StandByMe),
(JohnC)-[:ACTED_IN {roles:['Denny Lachance']}]→(StandByMe),
(KieferS)-[:ACTED_IN {roles:['Ace Merrill']}]→(StandByMe),
(MarshallB)-[:ACTED_IN {roles:['Mr. Lachance']}]→(StandByMe),
(RobR)-[:DIRECTED]→(StandByMe)

```

Creación de “As Good as It Gets”

```
CREATE (AsGoodAsItGets:Movie {title:'As Good as It Gets', released:1997, tagline:'A comedy from the heart that goes for the throat.'})
CREATE (HelenH:Person {name:'Helen Hunt', born:1963})
CREATE (GregK:Person {name:'Greg Kinnear', born:1963})
CREATE (JamesB:Person {name:'James L. Brooks', born:1940})
CREATE
(JackN)-[:ACTED_IN {roles:['Melvin Udall']}]→(AsGoodAsItGets),
(HelenH)-[:ACTED_IN {roles:['Carol Connelly']}]→(AsGoodAsItGets),
(GregK)-[:ACTED_IN {roles:['Simon Bishop']}]→(AsGoodAsItGets),
(CubaG)-[:ACTED_IN {roles:['Frank Sachs']}]→(AsGoodAsItGets),
(JamesB)-[:DIRECTED]→(AsGoodAsItGets)
```

Creación

```
CREATE (WhatDreamsMayCome:Movie {title:'What Dreams May Come', released:1998, tagline:'After life there is more. The end is just the beginning.'})
CREATE (AnnabellaS:Person {name:'Annabella Sciorra', born:1960})
CREATE (MaxS:Person {name:'Max von Sydow', born:1929})
CREATE (WernerH:Person {name:'Werner Herzog', born:1942})
CREATE (Robin:Person {name:'Robin Williams', born:1951})
CREATE (VincentW:Person {name:'Vincent Ward', born:1956})
CREATE
(Robin)-[:ACTED_IN {roles:['Chris Nielsen']}]→(WhatDreamsMayCome),
(CubaG)-[:ACTED_IN {roles:['Albert Lewis']}]→(WhatDreamsMayCome),
(AnnabellaS)-[:ACTED_IN {roles:['Annie Collins-Nielsen']}]→(WhatDreamsMayCome),
(MaxS)-[:ACTED_IN {roles:['The Tracker']}]→(WhatDreamsMayCome),
(WernerH)-[:ACTED_IN {roles:['The Face']}]→(WhatDreamsMayCome),
(VincentW)-[:DIRECTED]→(WhatDreamsMayCome)
```

Creación

```
CREATE (SnowFallingonCedars:Movie {title:'Snow Falling on Cedars', released:1999, tagline:'First loves last. Forever.'})
CREATE (EthanH:Person {name:'Ethan Hawke', born:1970})
CREATE (RickY:Person {name:'Rick Yune', born:1971})
CREATE (JamesC:Person {name:'James Cromwell', born:1940})
CREATE (ScottH:Person {name:'Scott Hicks', born:1953})
CREATE
(EthanH)-[:ACTED_IN {roles:['Ishmael Chambers']}]→(SnowFallingonCedars),
(RickY)-[:ACTED_IN {roles:['Kazuo Miyamoto']}]→(SnowFallingonCedars),
(MaxS)-[:ACTED_IN {roles:['Nels Gudmundsson']}]→(SnowFallingonCedars),
(JamesC)-[:ACTED_IN {roles:['Judge Fielding']}]→(SnowFallingonCedars),
(ScottH)-[:DIRECTED]→(SnowFallingonCedars)
```

Creación

```
CREATE (YouveGotMail:Movie {title:"You've Got Mail", released:1998, tagline:'At odds in life ... in love on-line.'})
CREATE (ParkerP:Person {name:'Parker Posey', born:1968})
CREATE (DaveC:Person {name:'Dave Chappelle', born:1973})
CREATE (SteveZ:Person {name:'Steve Zahn', born:1967})
CREATE (TomH:Person {name:'Tom Hanks', born:1956})
CREATE (NoraE:Person {name:'Nora Ephron', born:1941})
CREATE
(TomH)-[:ACTED_IN {roles:['Joe Fox']}]→(YouveGotMail),
(MegR)-[:ACTED_IN {roles:['Kathleen Kelly']}]→(YouveGotMail),
(GregK)-[:ACTED_IN {roles:['Frank Navasky']}]→(YouveGotMail),
(ParkerP)-[:ACTED_IN {roles:['Patricia Eden']}]→(YouveGotMail),
(DaveC)-[:ACTED_IN {roles:['Kevin Jackson']}]→(YouveGotMail),
(SteveZ)-[:ACTED_IN {roles:['George Pappas']}]→(YouveGotMail),
(NoraE)-[:DIRECTED]→(YouveGotMail)
```

Creation

```
CREATE (SleeplessInSeattle:Movie {title:'Sleepless in Seattle', released:1993, tagline:'What if someone you never met, someone you never saw, someone you never knew was the only someone for you?'})
CREATE (RitaW:Person {name:'Rita Wilson', born:1956})
CREATE (BillPull:Person {name:'Bill Pullman', born:1953})
CREATE (VictorG:Person {name:'Victor Garber', born:1949})
CREATE (RosieO:Person {name:'Rosie O'Donnell', born:1962})
CREATE
(TomH)-[:ACTED_IN {roles:['Sam Baldwin']}]→(SleeplessInSeattle),
(MegR)-[:ACTED_IN {roles:['Annie Reed']}]→(SleeplessInSeattle),
(RitaW)-[:ACTED_IN {roles:['Suzy']}]→(SleeplessInSeattle),
(BillPull)-[:ACTED_IN {roles:['Walter']}]→(SleeplessInSeattle),
(VictorG)-[:ACTED_IN {roles:['Greg']}]→(SleeplessInSeattle),
(RosieO)-[:ACTED_IN {roles:['Becky']}]→(SleeplessInSeattle),
(NoraE)-[:DIRECTED]→(SleeplessInSeattle)
```

Creacion

```
CREATE (JoeVersustheVolcano:Movie {title:'Joe Versus the Volcano', released:1990, tagline:'A story of love, lava and burning desire.'})
CREATE (JohnS:Person {name:'John Patrick Stanley', born:1950})
CREATE (Nathan:Person {name:'Nathan Lane', born:1956})
CREATE
(TomH)-[:ACTED_IN {roles:['Joe Banks']}]→(JoeVersustheVolcano),
(MegR)-[:ACTED_IN {roles:['DeDe', 'Angelica Graynamore', 'Patricia Graynamore']}]→(JoeVersustheVolcano),
(Nathan)-[:ACTED_IN {roles:['Baw']}]→(JoeVersustheVolcano),
(JohnS)-[:DIRECTED]→(JoeVersustheVolcano)
```

Creacion

```
CREATE (WhenHarryMetSally:Movie {title:'When Harry Met Sally', released:1998, tagline:'Can two friends sleep together and still love each other in the morning?'})
CREATE (BillyC:Person {name:'Billy Crystal', born:1948})
CREATE (CarrieF:Person {name:'Carrie Fisher', born:1956})
CREATE (BrunoK:Person {name:'Bruno Kirby', born:1949})
CREATE
(BillyC)-[:ACTED_IN {roles:['Harry Burns']}]→(WhenHarryMetSally),
(MegR)-[:ACTED_IN {roles:['Sally Albright']}]→(WhenHarryMetSally),
(CarrieF)-[:ACTED_IN {roles:['Marie']}]→(WhenHarryMetSally),
(BrunoK)-[:ACTED_IN {roles:['Jess']}]→(WhenHarryMetSally),
(RobR)-[:DIRECTED]→(WhenHarryMetSally),
(RobR)-[:PRODUCED]→(WhenHarryMetSally),
(NoraE)-[:PRODUCED]→(WhenHarryMetSally),
(NoraE)-[:WROTE]→(WhenHarryMetSally)
```

Creacion

```
CREATE (ThatThingYouDo:Movie {title:'That Thing You Do', released:1996, tagline:'In every life there comes a time when that thing you dream becomes that thing you do'})
CREATE (LivT:Person {name:'Liv Tyler', born:1977})
CREATE
(TomH)-[:ACTED_IN {roles:['Mr. White']}]→(ThatThingYouDo),
(LivT)-[:ACTED_IN {roles:['Faye Dolan']}]→(ThatThingYouDo),
(Charlize)-[:ACTED_IN {roles:['Tina']}]→(ThatThingYouDo),
(TomH)-[:DIRECTED]→(ThatThingYouDo)
```

Creacion

```
CREATE (TheReplacements:Movie {title:'The Replacements', released:2000, tagline:'Pain heals, Chicks dig scars ... Glory lasts forever'})
CREATE (Brooke:Person {name:'Brooke Langton', born:1970})
CREATE (Gene:Person {name:'Gene Hackman', born:1930})
CREATE (Orlando:Person {name:'Orlando Jones', born:1968})
CREATE (Howard:Person {name:'Howard Deutch', born:1950})
CREATE
(Keanu)-[:ACTED_IN {roles:['Shane Falco']}]→(TheReplacements),
(Brooke)-[:ACTED_IN {roles:['Annabelle Farrell']}]→(TheReplacements),
(Gene)-[:ACTED_IN {roles:['Jimmy McGinty']}]→(TheReplacements),
(Orlando)-[:ACTED_IN {roles:['Clifford Franklin']}]→(TheReplacements),
(Howard)-[:DIRECTED]→(TheReplacements)
```

Creacion


```
CREATE (RescueDawn:Movie {title:'RescueDawn', released:2006, tagline:"Based on the extraordinary true story of one man's fight for freedom"})
CREATE (ChristianB:Person {name:'Christian Bale', born:1974})
CREATE (ZachG:Person {name:'Zach Grenier', born:1954})
CREATE
(MarshallB)-[:ACTED_IN {roles:['Admiral']}]→(RescueDawn),
(ChristianB)-[:ACTED_IN {roles:['Dieter Dengler']}]→(RescueDawn),
(ZachG)-[:ACTED_IN {roles:['Squad Leader']}]→(RescueDawn),
(SteveZ)-[:ACTED_IN {roles:['Duane']}]→(RescueDawn),
(WernerH)-[:DIRECTED]→(RescueDawn)
```

Creacion

```
CREATE (TheBirdcage:Movie {title:'The Birdcage', released:1996, tagline:'Come as you are'})
CREATE (MikeN:Person {name:'Mike Nichols', born:1931})
CREATE
(Robin)-[:ACTED_IN {roles:['Armand Goldman']}]→(TheBirdcage),
(Nathan)-[:ACTED_IN {roles:['Albert Goldman']}]→(TheBirdcage),
(Gene)-[:ACTED_IN {roles:['Sen. Kevin Keeley']}]→(TheBirdcage),
(MikeN)-[:DIRECTED]→(TheBirdcage)
```

Creacion

```
CREATE (Unforgiven:Movie {title:'Unforgiven', released:1992, tagline:"It's a hell of a thing, killing a man"})
CREATE (RichardH:Person {name:'Richard Harris', born:1930})
CREATE (ClintE:Person {name:'Clint Eastwood', born:1930})
CREATE
(RichardH)-[:ACTED_IN {roles:['English Bob']}]→(Unforgiven),
(ClintE)-[:ACTED_IN {roles:['Bill Munny']}]→(Unforgiven),
(Gene)-[:ACTED_IN {roles:['Little Bill Daggett']}]→(Unforgiven),
(ClintE)-[:DIRECTED]→(Unforgiven)
```

Creacion

```
CREATE (JohnnyMnemonic:Movie {title:'Johnny Mnemonic', released:1995, tagline:'The hottest data on earth. In the coolest head in town'})
CREATE (Takeshi:Person {name:'Takeshi Kitano', born:1947})
CREATE (Dina:Person {name:'Dina Meyer', born:1968})
CREATE (IceT:Person {name:'Ice-T', born:1958})
CREATE (RobertL:Person {name:'Robert Longo', born:1953})
CREATE
(Keanu)-[:ACTED_IN {roles:['Johnny Mnemonic']}]→(JohnnyMnemonic),
(Takeshi)-[:ACTED_IN {roles:['Takahashi']}]→(JohnnyMnemonic),
(Dina)-[:ACTED_IN {roles:['Jane']}]→(JohnnyMnemonic),
(IceT)-[:ACTED_IN {roles:['J-Bone']}]→(JohnnyMnemonic),
(RobertL)-[:DIRECTED]→(JohnnyMnemonic)
```

Creacion

```
CREATE (CloudAtlas:Movie {title:'Cloud Atlas', released:2012, tagline:'Everything is connected'})
CREATE (HalleB:Person {name:'Halle Berry', born:1966})
CREATE (JimB:Person {name:'Jim Broadbent', born:1949})
CREATE (TomT:Person {name:'Tom Tykwer', born:1965})
CREATE (DavidMitchell:Person {name:'David Mitchell', born:1969})
CREATE (StefanArndt:Person {name:'Stefan Arndt', born:1961})
CREATE
(TomH)-[:ACTED_IN {roles:['Zachry', 'Dr. Henry Goose', 'Isaac Sachs', 'Dermot Hoggins']}]→(CloudAtlas),
(Hugo)-[:ACTED_IN {roles:['Bill Smoke', 'Haskell Moore', 'Tadeusz Kesselring', 'Nurse Noakes', 'Boardman Mephi', 'Old Georgie']}]→(CloudAtlas),
(HalleB)-[:ACTED_IN {roles:['Luisa Rey', 'Jocasta Ayrs', 'Ovid', 'Meronym']}]→(CloudAtlas),
(JimB)-[:ACTED_IN {roles:['Vyvyan Ayrs', 'Captain Molyneux', 'Timothy Cavendish']}]→(CloudAtlas),
(TomT)-[:DIRECTED]→(CloudAtlas),
(LillyW)-[:DIRECTED]→(CloudAtlas),
(LanaW)-[:DIRECTED]→(CloudAtlas),
(DavidMitchell)-[:WROTE]→(CloudAtlas),
(StefanArndt)-[:PRODUCED]→(CloudAtlas)
```

Creacion


```
CREATE (TheDaVinciCode:Movie {title:'The Da Vinci Code', released:2006, tagline:'Break The Codes'})
CREATE (IanM:Person {name:'Ian McKellen', born:1939})
CREATE (AudreyT:Person {name:'Audrey Tautou', born:1976})
CREATE (PaulB:Person {name:'Paul Bettany', born:1971})
CREATE (RonH:Person {name:'Ron Howard', born:1954})
CREATE
(TomH)-[:ACTED_IN {roles:['Dr. Robert Langdon']}]→(TheDaVinciCode),
(IanM)-[:ACTED_IN {roles:['Sir Leight Teabing']}]→(TheDaVinciCode),
(AudreyT)-[:ACTED_IN {roles:['Sophie Neveu']}]→(TheDaVinciCode),
(PaulB)-[:ACTED_IN {roles:['Silas']}]→(TheDaVinciCode),
(RonH)-[:DIRECTED]→(TheDaVinciCode)
```

Creacion

```
CREATE (VforVendetta:Movie {title:'V for Vendetta', released:2006, tagline:'Freedom! Forever!'})
CREATE (NatalieP:Person {name:'Natalie Portman', born:1981})
CREATE (StephenR:Person {name:'Stephen Rea', born:1946})
CREATE (JohnH:Person {name:'John Hurt', born:1940})
CREATE (BenM:Person {name:'Ben Miles', born:1967})
CREATE
(Hugo)-[:ACTED_IN {roles:['V']}]→(VforVendetta),
(NatalieP)-[:ACTED_IN {roles:['Evey Hammond']}]→(VforVendetta),
(StephenR)-[:ACTED_IN {roles:['Eric Finch']}]→(VforVendetta),
(JohnH)-[:ACTED_IN {roles:['High Chancellor Adam Sutler']}]→(VforVendetta),
(BenM)-[:ACTED_IN {roles:['Dascomb']}]→(VforVendetta),
(JamesM)-[:DIRECTED]→(VforVendetta),
(LillyW)-[:PRODUCED]→(VforVendetta),
(LanaW)-[:PRODUCED]→(VforVendetta),
(JoelS)-[:PRODUCED]→(VforVendetta),
(LillyW)-[:WROTE]→(VforVendetta),
(LanaW)-[:WROTE]→(VforVendetta)
```

Creacion

```
CREATE (SpeedRacer:Movie {title:'Speed Racer', released:2008, tagline:'Speed has no limits'})
CREATE (EmileH:Person {name:'Emile Hirsch', born:1985})
CREATE (JohnG:Person {name:'John Goodman', born:1960})
CREATE (SusanS:Person {name:'Susan Sarandon', born:1946})
CREATE (MatthewF:Person {name:'Matthew Fox', born:1966})
CREATE (ChristinaR:Person {name:'Christina Ricci', born:1980})
CREATE (Rain:Person {name:'Rain', born:1982})
CREATE
(EmileH)-[:ACTED_IN {roles:['Speed Racer']}]→(SpeedRacer),
(JohnG)-[:ACTED_IN {roles:['Pops']}]→(SpeedRacer),
(SusanS)-[:ACTED_IN {roles:['Mom']}]→(SpeedRacer),
(MatthewF)-[:ACTED_IN {roles:['Racer X']}]→(SpeedRacer),
(ChristinaR)-[:ACTED_IN {roles:['Trixie']}]→(SpeedRacer),
(Rain)-[:ACTED_IN {roles:['Taejo Togokahn']}]→(SpeedRacer),
(BenM)-[:ACTED_IN {roles:['Cass Jones']}]→(SpeedRacer),
(LillyW)-[:DIRECTED]→(SpeedRacer),
(LanaW)-[:DIRECTED]→(SpeedRacer),
(LillyW)-[:WROTE]→(SpeedRacer),
(LanaW)-[:WROTE]→(SpeedRacer),
(JoelS)-[:PRODUCED]→(SpeedRacer)
```

Creacion

```
CREATE (NinjaAssassin:Movie {title:'Ninja Assassin', released:2009, tagline:'Prepare to enter a secret world of assassins'})
CREATE (NaomieH:Person {name:'Naomie Harris'})
CREATE
(Rain)-[:ACTED_IN {roles:['Raizo']}]→(NinjaAssassin),
(NaomieH)-[:ACTED_IN {roles:['Mika Coretti']}]→(NinjaAssassin),
(RickyY)-[:ACTED_IN {roles:['Takeshi']}]→(NinjaAssassin),
(BenM)-[:ACTED_IN {roles:['Ryan Maslow']}]→(NinjaAssassin),
(JamesM)-[:DIRECTED]→(NinjaAssassin),
(LillyW)-[:PRODUCED]→(NinjaAssassin),
(LanaW)-[:PRODUCED]→(NinjaAssassin),
(JoelS)-[:PRODUCED]→(NinjaAssassin)
```

Creacion

```
CREATE (TheGreenMile:Movie {title:'The Green Mile', released:1999, tagline:"Walk a mile you'll never forget."})
CREATE (MichaelD:Person {name:'Michael Clarke Duncan', born:1957})
CREATE (DavidM:Person {name:'David Morse', born:1953})
CREATE (SamR:Person {name:'Sam Rockwell', born:1968})
CREATE (GaryS:Person {name:'Gary Sinise', born:1955})
CREATE (PatriciaC:Person {name:'Patricia Clarkson', born:1959})
CREATE (FrankD:Person {name:'Frank Darabont', born:1959})
CREATE
(TomH)-[:ACTED_IN {roles:['Paul Edgecomb']}]→(TheGreenMile),
(MichaelD)-[:ACTED_IN {roles:['John Coffey']}]→(TheGreenMile),
(DavidM)-[:ACTED_IN {roles:['Brutus "Brutal" Howell']}]→(TheGreenMile),
(BonnieH)-[:ACTED_IN {roles:['Jan Edgecomb']}]→(TheGreenMile),
(JamesC)-[:ACTED_IN {roles:['Warden Hal Moores']}]→(TheGreenMile),
(SamR)-[:ACTED_IN {roles:['"Wild Bill" Wharton']}]→(TheGreenMile),
(GaryS)-[:ACTED_IN {roles:['Burt Hammersmith']}]→(TheGreenMile),
(PatriciaC)-[:ACTED_IN {roles:['Melinda Moores']}]→(TheGreenMile),
(FrankD)-[:DIRECTED]→(TheGreenMile)
```

Creacion

```
CREATE (FrostNixon:Movie {title:'Frost/Nixon', released:2008, tagline:'400 million people were waiting for the truth.'})
CREATE (FrankL:Person {name:'Frank Langella', born:1938})
CREATE (MichaelS:Person {name:'Michael Sheen', born:1969})
CREATE (OliverP:Person {name:'Oliver Platt', born:1960})
CREATE
(FrankL)-[:ACTED_IN {roles:['Richard Nixon']}]→(FrostNixon),
(MichaelS)-[:ACTED_IN {roles:['David Frost']}]→(FrostNixon),
(KevinB)-[:ACTED_IN {roles:['Jack Brennan']}]→(FrostNixon),
(OliverP)-[:ACTED_IN {roles:['Bob Zelnick']}]→(FrostNixon),
(SamR)-[:ACTED_IN {roles:['James Reston, Jr.']]→(FrostNixon),
(RonH)-[:DIRECTED]→(FrostNixon)
```

Creacion

```
CREATE (Hoffa:Movie {title:'Hoffa', released:1992, tagline:"He didn't want law. He wanted justice."})
CREATE (DannyD:Person {name:'Danny DeVito', born:1944})
CREATE (JohnR:Person {name:'John C. Reilly', born:1965})
CREATE
(JackN)-[:ACTED_IN {roles:['Hoffa']}]→(Hoffa),
(DannyD)-[:ACTED_IN {roles:['Robert "Bobby" Ciaro']}]→(Hoffa),
(JTW)-[:ACTED_IN {roles:['Frank Fitzsimmons']}]→(Hoffa),
(JohnR)-[:ACTED_IN {roles:['Peter "Pete" Connelly']}]→(Hoffa),
(DannyD)-[:DIRECTED]→(Hoffa)
```

Creacion

```
CREATE (Apollo13:Movie {title:'Apollo 13', released:1995, tagline:'Houston, we have a problem.'})
CREATE (EdH:Person {name:'Ed Harris', born:1950})
CREATE (BillPax:Person {name:'Bill Paxton', born:1955})
CREATE
(TomH)-[:ACTED_IN {roles:['Jim Lovell']}]→(Apollo13),
(KevinB)-[:ACTED_IN {roles:['Jack Swigert']}]→(Apollo13),
(EdH)-[:ACTED_IN {roles:['Gene Kranz']}]→(Apollo13),
(BillPax)-[:ACTED_IN {roles:['Fred Haise']}]→(Apollo13),
(GaryS)-[:ACTED_IN {roles:['Ken Mattingly']}]→(Apollo13),
(RonH)-[:DIRECTED]→(Apollo13)
```

Creacion

```
CREATE (Twister:Movie {title:'Twister', released:1996, tagline:"Don't Breathe. Don't Look Back."})
CREATE (PhilipH:Person {name:'Philip Seymour Hoffman', born:1967})
CREATE (JanB:Person {name:'Jan de Bont', born:1943})
CREATE
(BillPax)-[:ACTED_IN {roles:['Bill Harding']}]→(Twister),
(HelenH)-[:ACTED_IN {roles:['Dr. Jo Harding']}]→(Twister),
(ZachG)-[:ACTED_IN {roles:['Eddie']}]→(Twister),
(PhilipH)-[:ACTED_IN {roles:['Dustin "Dusty" Davis']}]→(Twister),
(JanB)-[:DIRECTED]→(Twister)
```

Creacion

```
CREATE (CastAway:Movie {title:'Cast Away', released:2000, tagline:'At the edge of the world, his journey begins.'})
CREATE (RobertZ:Person {name:'Robert Zemeckis', born:1951})
CREATE
(TomH)-[:ACTED_IN {roles:['Chuck Noland']}]→(CastAway),
(HelenH)-[:ACTED_IN {roles:['Kelly Frears']}]→(CastAway),
(RobertZ)-[:DIRECTED]→(CastAway)
```

Creacion

```
CREATE (OneFlewOvertheCuckoosNest:Movie {title:"One Flew Over the Cuckoo's Nest", released:1975, tagline:"If he's crazy, what does that make you?"})
CREATE (MilosF:Person {name:'Milos Forman', born:1932})
CREATE
(JackN)-[:ACTED_IN {roles:['Randle McMurphy']}]→(OneFlewOvertheCuckoosNest),
(DannyD)-[:ACTED_IN {roles:['Martini']}]→(OneFlewOvertheCuckoosNest),
(MilosF)-[:DIRECTED]→(OneFlewOvertheCuckoosNest)
```

Creacion

```
CREATE (SomethingsGottaGive:Movie {title:"Something's Gotta Give", released:2003})
CREATE (DianeK:Person {name:'Diane Keaton', born:1946})
CREATE (NancyM:Person {name:'Nancy Meyers', born:1949})
CREATE
(JackN)-[:ACTED_IN {roles:['Harry Sanborn']}]→(SomethingsGottaGive),
(DianeK)-[:ACTED_IN {roles:['Erica Barry']}]→(SomethingsGottaGive),
(Keanu)-[:ACTED_IN {roles:['Julian Mercer']}]→(SomethingsGottaGive),
(NancyM)-[:DIRECTED]→(SomethingsGottaGive),
(NancyM)-[:PRODUCED]→(SomethingsGottaGive),
(NancyM)-[:WROTE]→(SomethingsGottaGive)
```

Creacion

```
CREATE (BicentennialMan:Movie {title:'Bicentennial Man', released:1999, tagline:"One robot's 200 year journey to become an ordinary man."})
CREATE (ChrisC:Person {name:'Chris Columbus', born:1958})
CREATE
(Robin)-[:ACTED_IN {roles:['Andrew Marin']}]→(BicentennialMan),
(OliverP)-[:ACTED_IN {roles:['Rupert Burns']}]→(BicentennialMan),
(ChrisC)-[:DIRECTED]→(BicentennialMan)
```

Creacion

```
CREATE (CharlieWilsonsWar:Movie {title:"Charlie Wilson's War", released:2007, tagline:"A stiff drink. A little mascara. A lot of nerve. Who said they couldn't bring down the Soviet empire."})
CREATE (JuliaR:Person {name:'Julia Roberts', born:1967})
CREATE
(TomH)-[:ACTED_IN {roles:['Rep. Charlie Wilson']}]→(CharlieWilsonsWar),
(JuliaR)-[:ACTED_IN {roles:['Joanne Herring']}]→(CharlieWilsonsWar),
(PhilipH)-[:ACTED_IN {roles:['Gust Avrakotos']}]→(CharlieWilsonsWar),
(MikeN)-[:DIRECTED]→(CharlieWilsonsWar)
```

Creacion

```
CREATE (ThePolarExpress:Movie {title:'The Polar Express', released:2004, tagline:'This Holiday Season... Believe'})
CREATE
(TomH)-[:ACTED_IN {roles:['Hero Boy', 'Father', 'Conductor', 'Hobo', 'Scrooge', 'Santa Claus']}]→
(ThePolarExpress),
(RobertZ)-[:DIRECTED]→(ThePolarExpress)
```

Creation

```
CREATE (ALeagueofTheirOwn:Movie {title:'A League of Their Own', released:1992, tagline:'Once in a lifetime you get a chance to do something different.'})
CREATE (Madonna:Person {name:'Madonna', born:1954})
CREATE (GeenaD:Person {name:'Geena Davis', born:1956})
CREATE (LoriP:Person {name:'Lori Petty', born:1963})
CREATE (PennyM:Person {name:'Penny Marshall', born:1943})
CREATE
(TomH)-[:ACTED_IN {roles:['Jimmy Dugan']}]→(ALeagueofTheirOwn),
(GeenaD)-[:ACTED_IN {roles:['Dottie Hinson']}]→(ALeagueofTheirOwn),
(LoriP)-[:ACTED_IN {roles:['Kit Keller']}]→(ALeagueofTheirOwn),
(RosieO)-[:ACTED_IN {roles:['Doris Murphy']}]→(ALeagueofTheirOwn),
(Madonna)-[:ACTED_IN {roles:['"All the Way" Mae Mordabito']}]→(ALeagueofTheirOwn),
(BillPax)-[:ACTED_IN {roles:['Bob Hinson']}]→(ALeagueofTheirOwn),
(PennyM)-[:DIRECTED]→(ALeagueofTheirOwn)
```

Creacion

```
CREATE (PaulBlythe:Person {name:'Paul Blythe'})
CREATE (AngelaScope:Person {name:'Angela Scope'})
CREATE (JessicaThompson:Person {name:'Jessica Thompson'})
CREATE (JamesThompson:Person {name:'James Thompson'})

CREATE
(JamesThompson)-[:FOLLOWS]→(JessicaThompson),
(AngelaScope)-[:FOLLOWS]→(JessicaThompson),
(PaulBlythe)-[:FOLLOWS]→(AngelaScope)

CREATE
(JessicaThompson)-[:REVIEWED {summary:'An amazing journey', rating:95}]→(CloudAtlas),
(JessicaThompson)-[:REVIEWED {summary:'Silly, but fun', rating:65}]→(TheReplacements),
(JamesThompson)-[:REVIEWED {summary:'The coolest football movie ever', rating:100}]→(TheReplacements),
(AngelaScope)-[:REVIEWED {summary:'Pretty funny at times', rating:62}]→(TheReplacements),
(JessicaThompson)-[:REVIEWED {summary:'Dark, but compelling', rating:85}]→(Unforgiven),
(JessicaThompson)-[:REVIEWED {summary:'Slapstick redeemed only by the Robin Williams and Gene Hackman's stellar performances', rating:45}]→(TheBirdcage),
(JessicaThompson)-[:REVIEWED {summary:'A solid romp', rating:68}]→(TheDaVinciCode),
(JamesThompson)-[:REVIEWED {summary:'Fun, but a little far fetched', rating:65}]→(TheDaVinciCode),
(JessicaThompson)-[:REVIEWED {summary:'You had me at Jerry', rating:92}]→(JerryMaguire);
```

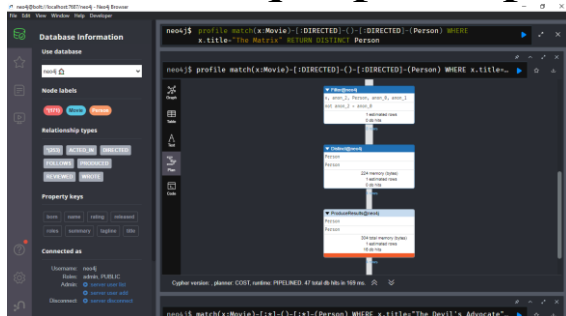
CONSULTAS

Directores que participaron en la película “the matrix”

```
match(x:Movie)-[:DIRECTED]-()-
[:DIRECTED]-
(Person) WHERE x.title="The Matrix" RETURN
DISTINCT Person
```

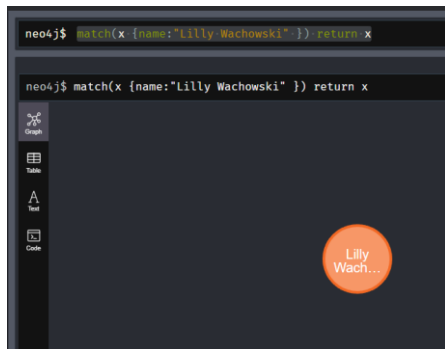


Como hizo es que se realizo la búsqueda de los directores que participaron



Buscar al actor x

```
match(x { name:"Lilly Wachowski" }) return x
```



Encontrar 10 personas

```
Match (x:Person) return x.name limit 10
```

A screenshot of the Neo4j interface showing a table of results. The top bar shows the Cypher query: `neo4j$ match (x:Person) return x.name Limit 10`. The left sidebar has icons for Table, Text, and Code. The main area displays a table with the following data:

	x.name
1	"Lilly Wachowski"
2	"Lana Wachowski"
3	"Joel Silver"
4	"Emil Eifrem"
5	"Charlize Theron"
6	"Al Pacino"

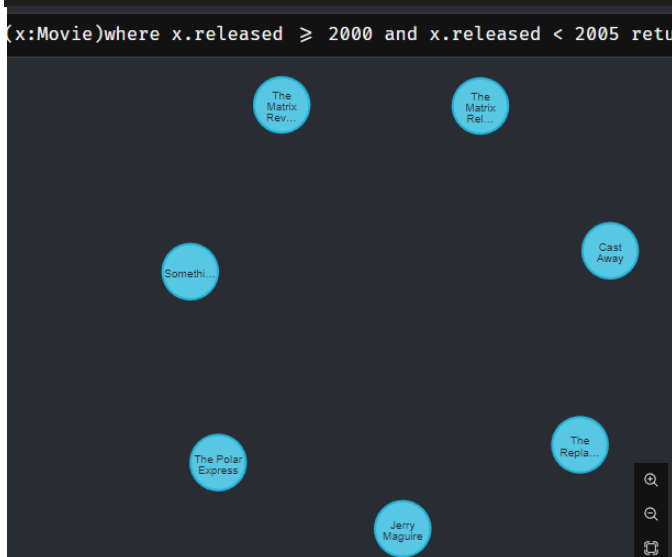
Personas que nacieron de 1965 para adelante
con limite de 10

```
neo4j$ match (x:Person) where x.born ≥ 1965 return x.name Limit 10
```

	x.name
1	"Lana Wachowski"
2	"Tom Tykwer"
3	"John C. Reilly"
4	"Kiefer Sutherland"
5	"John Cusack"
6	"Halle Berry"
7	

Mostrar películas publicadas en fecha rango
2000 a 2005

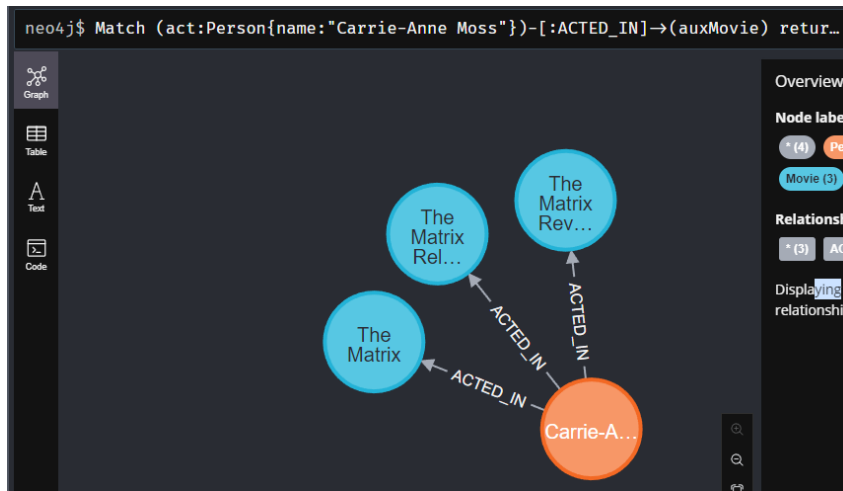
Match (x:Movie) **where** x.released ≥ 2000 **and**
x.released < 2005 **return** x



Mostrar las películas en las que participo :

: "Carrie-Anne Moss"

```
Match (act:Person{name:"Carrie-  
Anne Moss"})-[:ACTED_IN]-  
>(auxMovie) return act, auxMovie
```



Mostrar o listar los directores de la película x

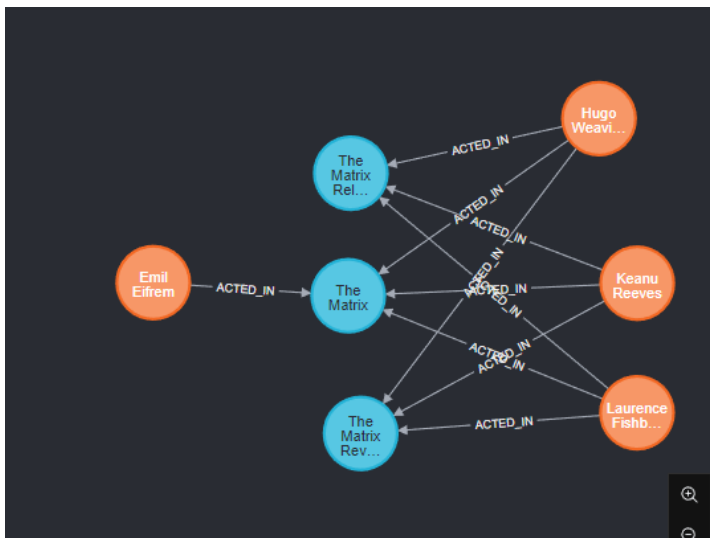
```
MATCH (x{title:"The Matrix"})<-  
[:DIRECTED]-  
(directores) return directores.name
```

The image shows a Neo4j interface with a Cypher query and its corresponding table result. The query is: `neo4j$ MATCH (x{title:"The Matrix"})<-[:DIRECTED]-(directores) return directores...`. The table result shows the names of the directors of "The Matrix".

	directores.name
1	"Lilly Wachowski"
2	"Lana Wachowski"

Mostrar las peliculas en las que actuo la persona X y mostrar quienes actuaron en esas películas y nombres de las películas

```
match (x:Person{name:"Carrie-Anne Moss"})-[:ACTED_IN]->(guardaPelis)<-[:ACTED_IN]-(actoresCompañia) return guardaPelis, actoresCompañia
```



Mostrar a la personas que participaron en la película matrix

```
match (persona:Person)-[relatedTo]-
(:Movie{title:"The Matrix"}) return persona.name, type(relatedTo), relatedTo
```

Mostrara a los personajes, la relación y el tipo de relación

The screenshot shows the Neo4j Cypher query interface. The query is: `match (persona:Person)-[relatedTo]-(:Movie{title:"The Matrix"}) return persona.name, type(relatedTo), relatedTo`. The results are displayed in a table with three columns: `persona.name`, `type(relatedTo)`, and `relatedTo`. There are two records shown.

	persona.name	type(relatedTo)	relatedTo
1	"Emil Eifrem"	"ACTED_IN"	{ "identity": 7, "start": 8, "end": 0, "type": "ACTED_IN", "properties": { "roles": ["Emil"] }, "elementId": "7", "startNodeElementId": "8", "endNodeElementId": "0" }
2	"Joel Silver"	"PRODUCED"	{

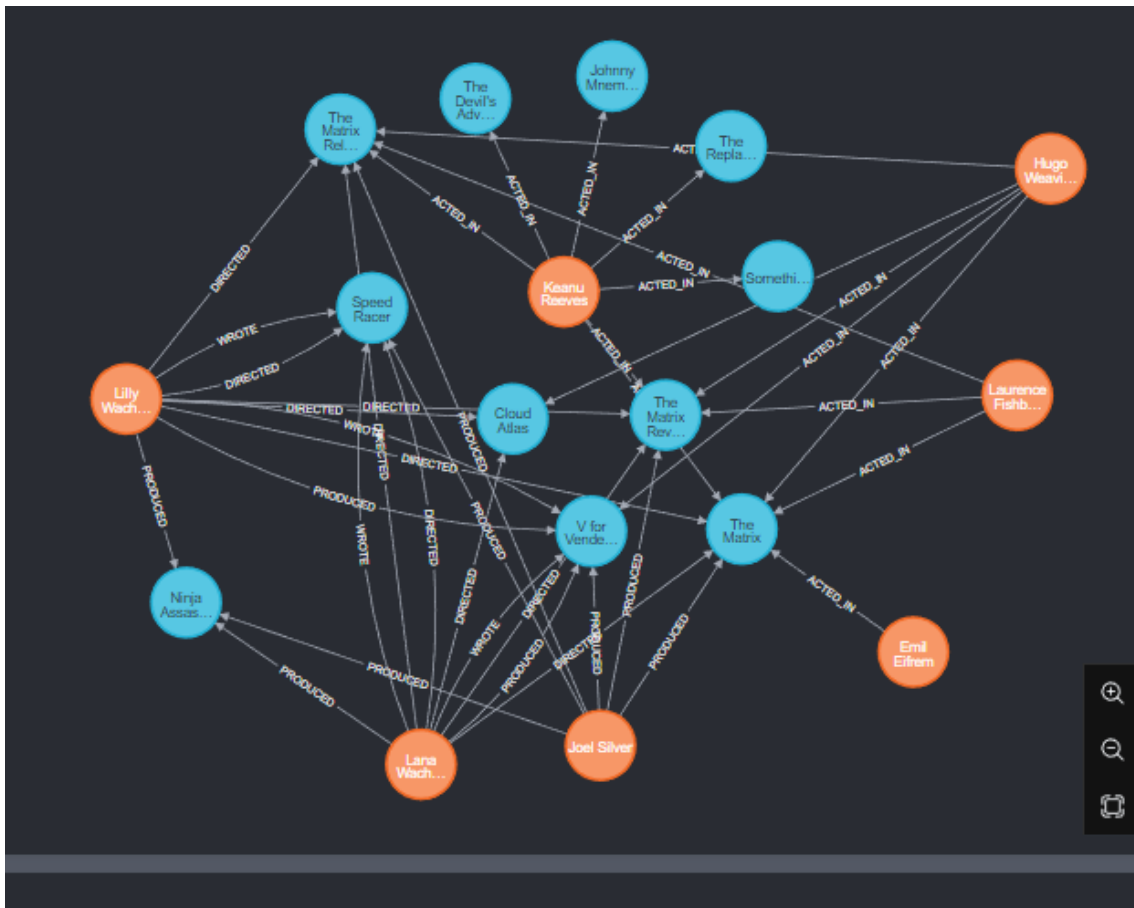
Started streaming 8 records after 1 ms and completed after 3 ms.

Mostrar las relaciones :**"Carrie-Anne Moss"** en dos niveles

```
Match (x:Person{ name:"Carrie-Anne Moss" })-
[*1..2]-(relacionado) return distinct relacionado
```



```
Match (x:Person{ name:"Carrie-Anne Moss" })-  
[*1..3]-(relacionado) return distinct relacionado
```



Mostrar el camino mas corto que tienen como relación :**"Emil Eifrem"** y **"Meg Ryan"**

```
Match p=shortestPath((x:Person{ name:"Emil E
ifrem"})-[*]-
(y:Person { name:"Meg Ryan"})) return p
```



Ver cantidad de personas que nacieron de 1970 para adelante

```
MATCH (p:Person) WHERE p.born>=1970 RETURN count(*)
```

```
neo4j$ MATCH (p:Person) WHERE p.born ≥ 1970 RETURN count(*)
```

```
neo4j$ MATCH (p:Person) WHERE p.born ≥ 1970 RETURN count(*)
```

	count(*)
1	22

Mostrar de todas las películas, todos los q
tengan relación ACTED_IN

```
MATCH relation=(p1:Person)-[r:ACTED_IN]->(p2:Movie) RETURN relation
```

