Bases de Dados de Grafos

FE 07

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Usar a mesma BD dos exemplos anteriores:

#1: Criar uma query que que descubra clientes com interesses semelhantes.

#2: Com base nas evidências encontradas recomendar ao cliente os produtos dos clientes com interesses semelhantes que não fazem parte dos seus interesses.

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Add graph > “Play” > open Neo4J browser.

Import “movies” database:

- :play movies > 2nd page > click the code > press play

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Try out query:

```
MATCH (n)
RETURN n
```

Try out query:

```
MATCH (n) WITH COUNT(n) AS numVertices
MATCH (a)-[e]->(b) WITH COUNT(e) AS numEdges
RETURN numVertices, numEdges
```

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1) RETURN a list of all the characters in the movie The Matrix.

Movies have the label Movie and a title property you want to compare to.

We're looking for the characters—the roles which are a property of the ACTED_IN relationships—not the names of the actors.

2) Find all of the movies that Tom Hanks acted in?

3) Limit that to movies which were released after 2000? Note that there is a released property on Movie.

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4) Find directors acting in their movies?

5) Find all movies in which Keanu Reeves played the role Neo.

You need an variable for the relationship.

The **ACTED_IN** relationship has a **roles** property (which is an array).

The syntax for seeing whether an element is in an array is **{element} IN r.roles**.

Generally check for the existence of the value of **{expression} IN {collection}**

6) Return the names of all the directors each actor has worked with.

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7) Return the count of movies in which each actor has acted.

8) Return the count of movies in which an actor and director have jointly worked.

9) Write a query that will display the five (5) busiest actors, i.e. the ones who have been in the most movies.

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