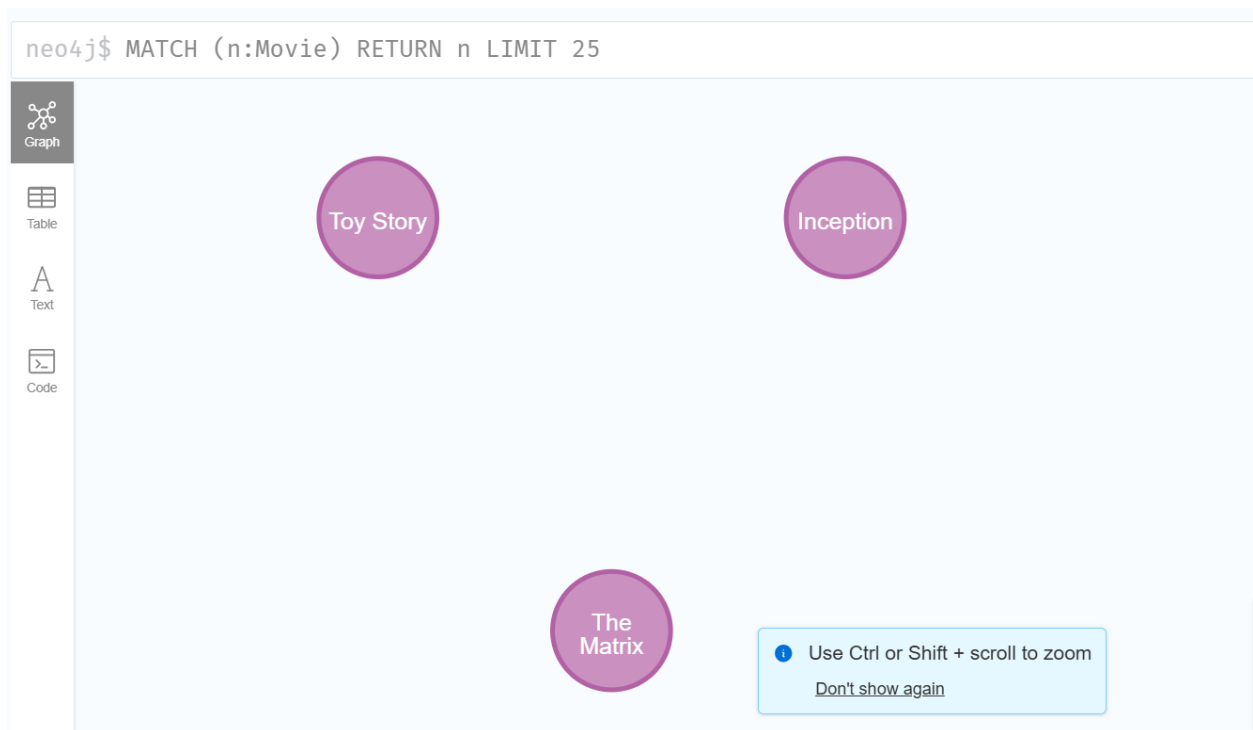Nguyễn Phúc Nguyên
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Lab6

Câu 1:

CREATE (m1:Movie {title: "The Matrix", year: 1999, rating: 8.7})

CREATE (m2:Movie {title: "Inception", year: 2010, rating: 8.8})

CREATE (m3:Movie {title: "Toy Story", year: 1995, rating: 8.3})

```
neo4j$ MATCH (n:Movie) RETURN n LIMIT 25
```


Câu 2:

CREATE (u1:User {name: "John", age: 25})

CREATE (u2:User {name: "Emma", age: 30})

WITH *

MATCH (u1:User {name: "John"}), (m1:Movie {title: "The Matrix"})

CREATE (u1)-[:RATED {score: 5}]->(m1)

WITH *

MATCH (u1:User {name: "John"}), (m2:Movie {title: "Inception"})
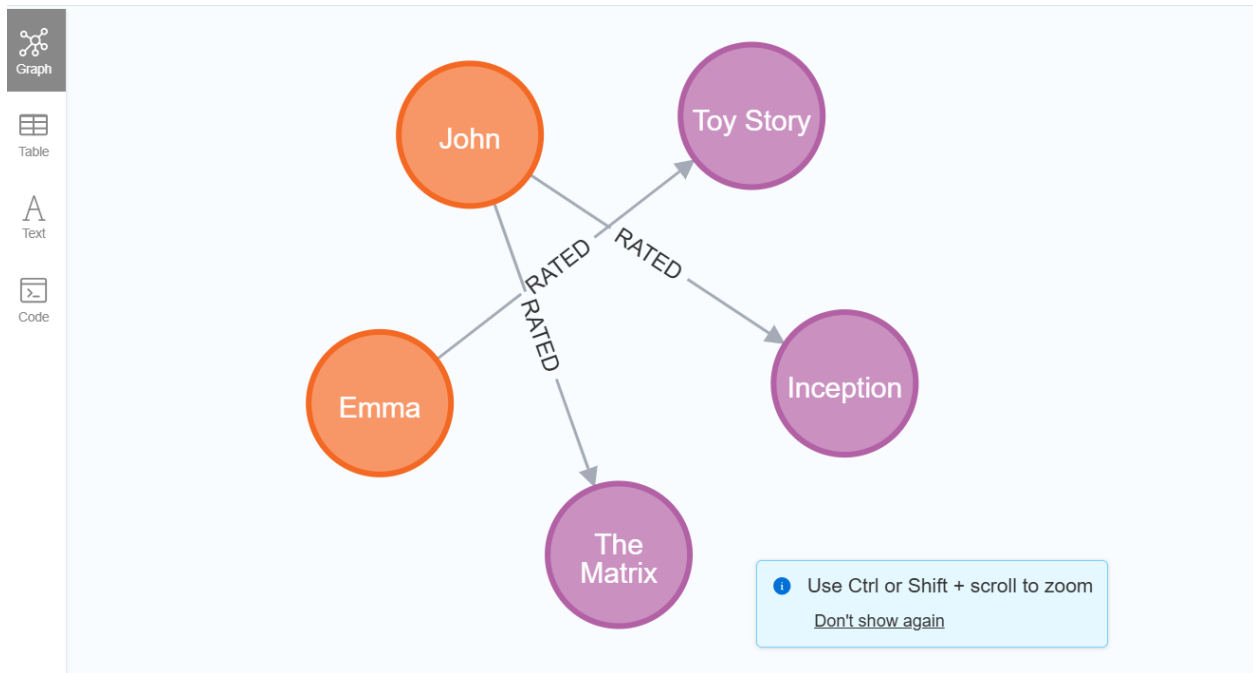
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CREATE (u1)-[:RATED {score: 4}]->(m2)

WITH *

MATCH (u2:User {name: "Emma"}), (m3:Movie {title: "Toy Story"})

CREATE (u2)-[:RATED {score: 5}]->(m3)

neo4j$ MATCH (n) RETURN n LIMIT 25

Câu 3:

MATCH (m:Movie)

WHERE m.rating >= 8.5

RETURN m.title AS title, m.rating AS rating

ORDER BY m.rating DESC

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```
1  MATCH (m:Movie)
2  WHERE m.rating ≥ 8.5
3  RETURN m.title AS title, m.rating AS rating
4  ORDER BY m.rating DESC
```

	title	rating
1	"Inception"	8.8
2	"The Matrix"	8.7

Câu 4:

// Thêm thể loại Sci-Fi cho The Matrix (giả sử chưa có)

MATCH (m:Movie {title: "The Matrix"})

MERGE (g:Genre {name: "Sci-Fi"})

MERGE (m)-[:BELONGS_TO]->(g)

// Thêm thể loại Sci-Fi cho Inception (giả sử cũng là Sci-Fi)

MATCH (m:Movie {title: "Inception"})

MERGE (g:Genre {name: "Sci-Fi"})

MERGE (m)-[:BELONGS_TO]->(g)

// Thêm relationship WATCHED cho John với The Matrix

MATCH (u:User {name: "John"}), (m:Movie {title: "The Matrix"})

MERGE (u)-[:WATCHED]->(m)

// Tìm phim Sci-Fi mà John chưa xem

MATCH (u:User {name: "John"})

MATCH (m:Movie)-[:BELONGS_TO]->(g:Genre {name: "Sci-Fi"})

WHERE NOT (u)-[:WATCHED]->(m)

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RETURN m.title AS title
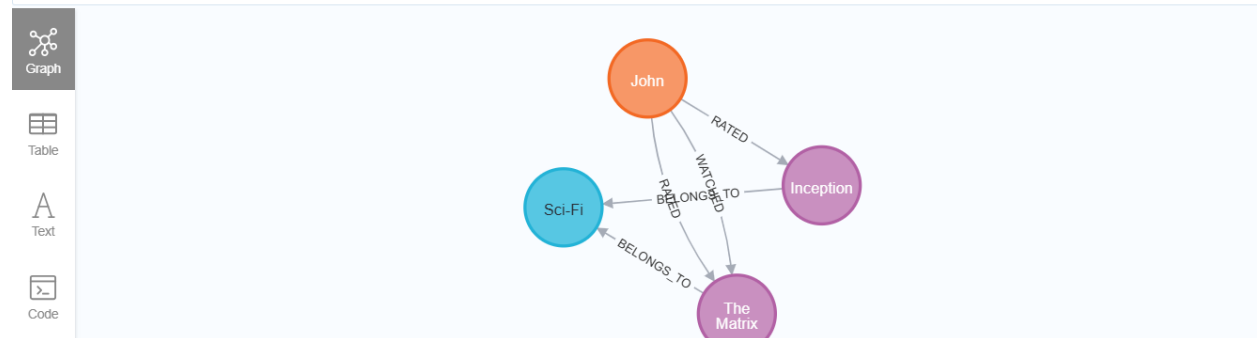
```
neo4j$ // Tìm phim Sci-Fi mà John chưa xem MATCH (u:User {name: "John"}) MATCH (m:Movi
```

	title
1	"Inception"

Started streaming 1 records after 18 ms and completed after 41 ms.

```
neo4j$ MATCH (n) RETURN n LIMIT 25
```


Câu 5:

// Tạo diễn viên Keanu Reeves

CREATE (a:Actor {name: "Keanu Reeves"})

// Liên kết với The Matrix

MATCH (a:Actor {name: "Keanu Reeves"}), (m:Movie {title: "The Matrix"})

CREATE (a)-[:ACTED_IN]->(m)

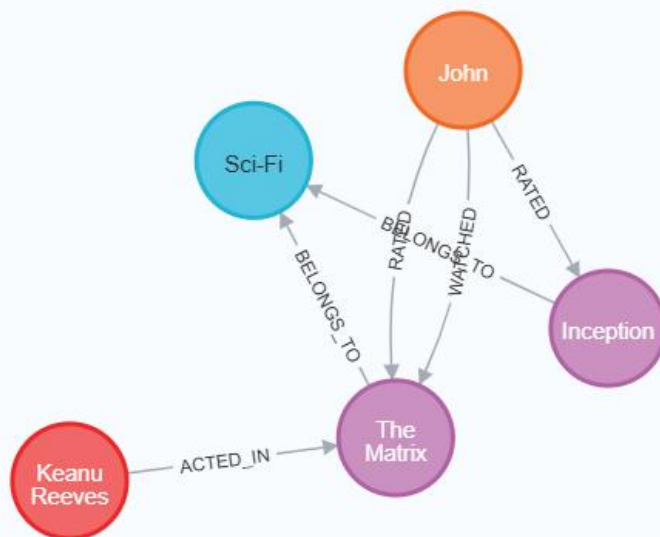// Thêm thể loại Sci-Fi (đã làm ở Câu 4, chỉ cần kiểm tra lại)

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MATCH (m:Movie {title: "The Matrix"})

MERGE (g:Genre {name: "Sci-Fi"})

MERGE (m)-[:BELONGS_TO]->(g)

Câu 6:

MATCH (m:Movie)

WHERE NOT (m)<-[:RATED]-(:User)

DETACH DELETE m

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```
neo4j$ MATCH (m:Movie) WHERE NOT (m)←[:RATED]-(:User) DETACH DELETE m
```

(no changes, no records)

Câu 7:

MATCH (a:Actor)-[:ACTED_IN]->(m:Movie)

RETURN a.name AS actor_name, COUNT(m) AS movie_count

ORDER BY movie_count DESC

```
neo4j$ MATCH (a:Actor)-[:ACTED_IN]→(m:Movie) RETURN a.name AS actor_name, COUNT(m) AS mov
```

actor_name	movie_count
"Keanu Reeves"	1

Câu 8:

MATCH (u:User {name: "John"})

MATCH (a:Actor {name: "Keanu Reeves"})-[:ACTED_IN]->(m:Movie)

WHERE NOT (u)-[:WATCHED]->(m) // Loại phim John đã xem

RETURN m.title AS title

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```
neo4j$ MATCH (u:User {name: "John"}) MATCH (a:Actor {name: "Keanu Reeves"})-[:ACTED_IN]→(m:Movie) WHERE NOT (u)-…
```

Table

Code

(no changes, no records)

```
neo4j$ MATCH (u:User {name: "John"}) MATCH (a:Actor {name: "Keanu Reeves"})-[:ACTED_IN]→(m:Movie) WHERE NOT (u)-…
```