CMPINF 2110

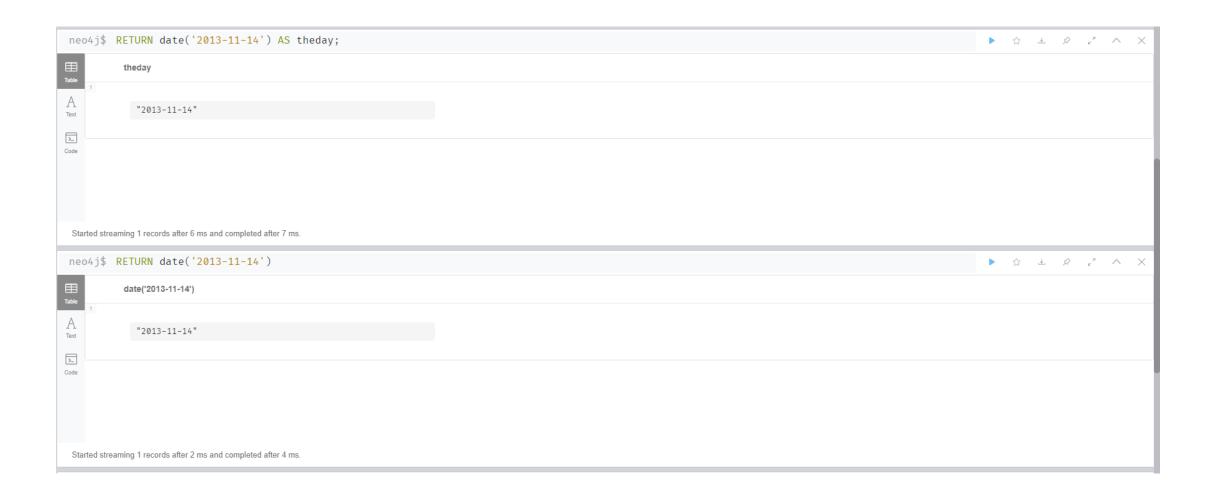
Week 13

More Graph examples with Neo4j and Cypher

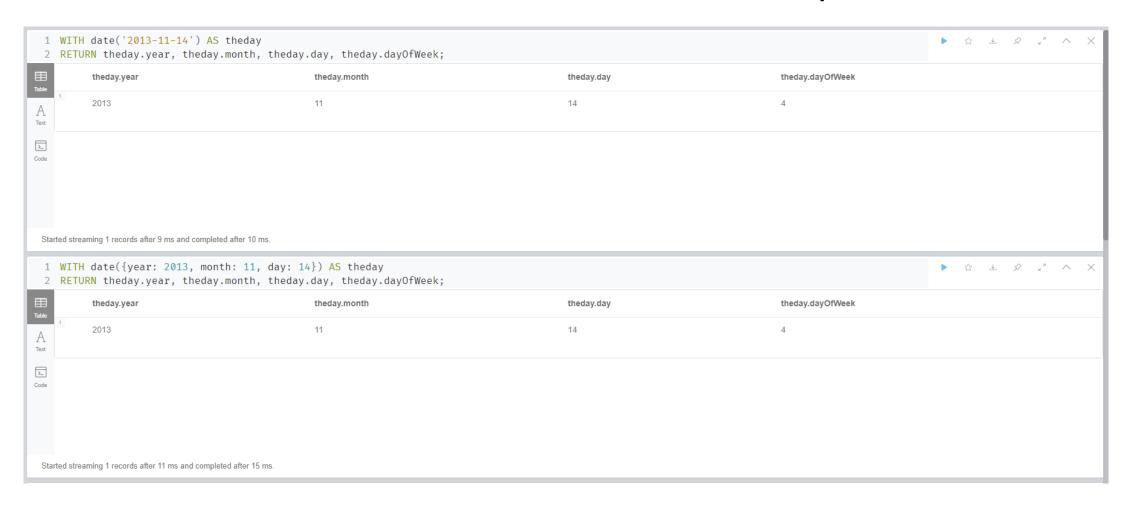
Dates and DateTime Neo4j

- Creating date and DateTime:
 - https://neo4j.com/docs/cypher-manual/current/syntax/temporal/
- Extracting DateTime components:
 - https://neo4j.com/docs/cypher-manual/current/syntax/temporal/#cypher-temporal-accessing-components-temporal-instants

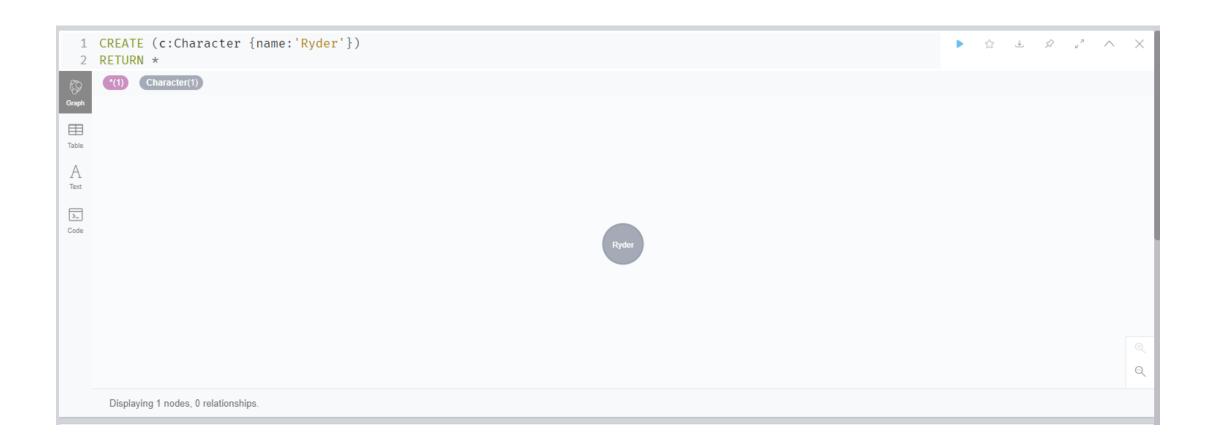
Simple example to create a date and return it



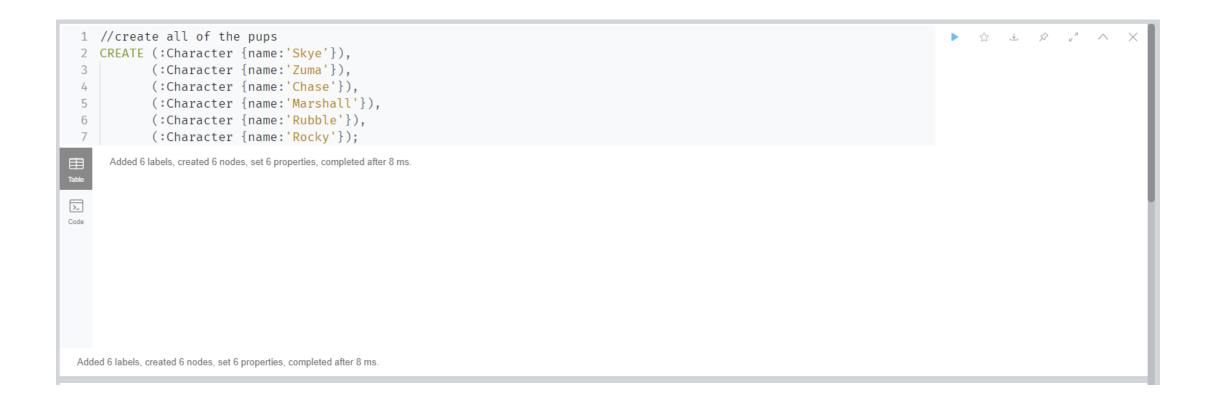
Multiple ways to create a date, but once created can extract datetime components



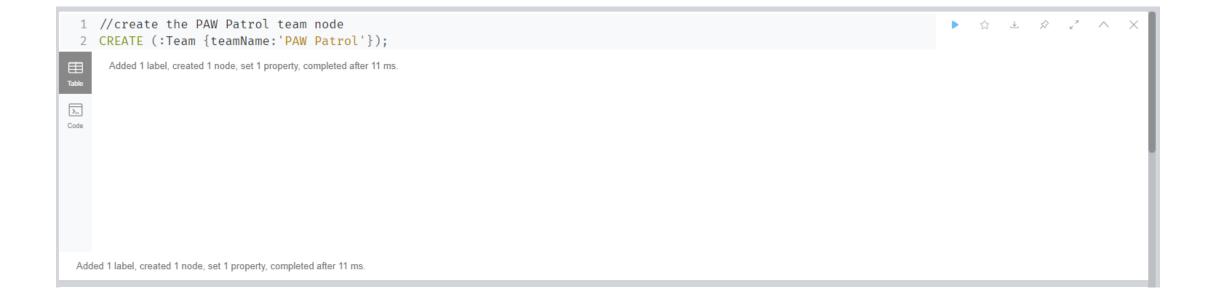
PAW Patrol example – create Ryder Node as Label Character



Create all Pups as Character Label nodes



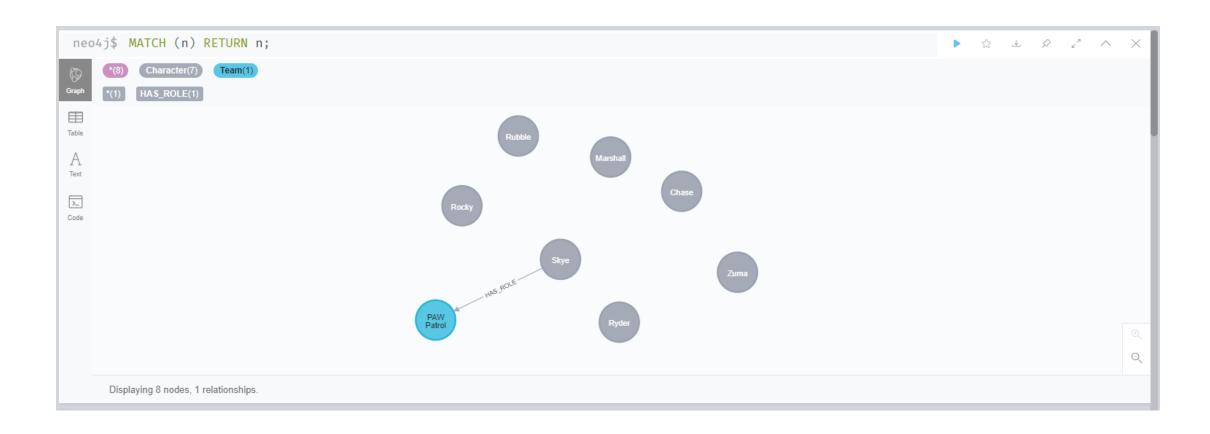
Create the PAW Patrol team label



Create the relationship between the pups and the team, every pup as at least 1 role on the team



Show the relationship



Some pups have multiple roles! This allows us to have multiple relationships between nodes



Create the roles for Marshall



Create the roles for Chase



Create the role for Zuma



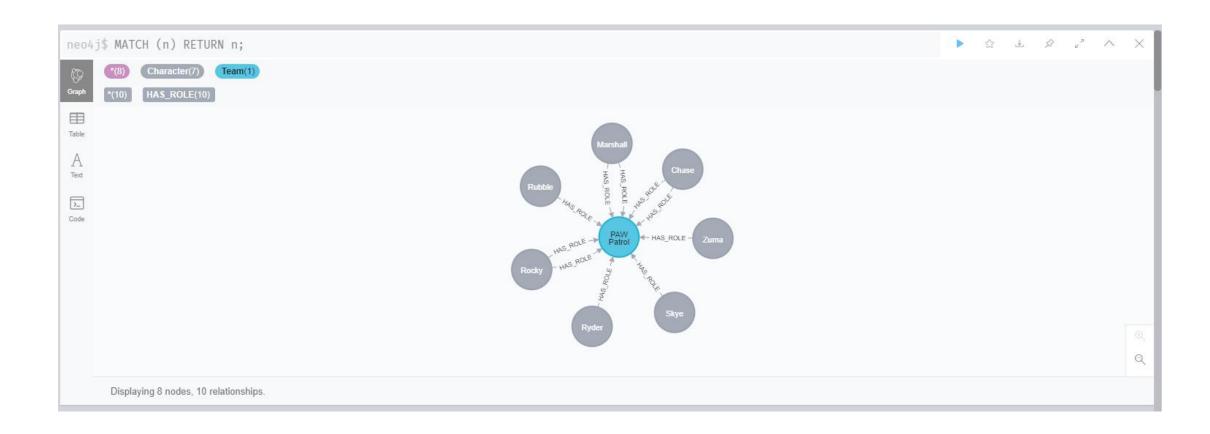
Create the role for Rubble



Create the role for Ryder



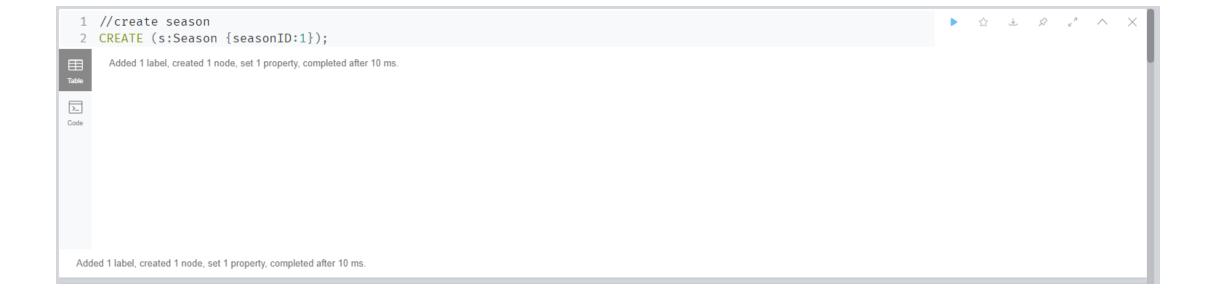
The PAW patrol!



Create episode 1



Create season 1



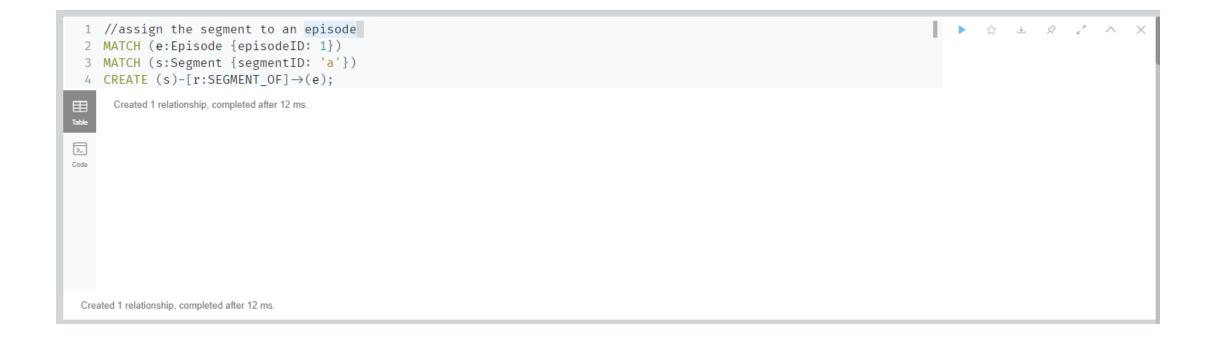
Create segments a and b of episode 1

```
// Create segments a and b of episode 1
CREATE (s:Segment {segmentID: 'a', title:'Pups make a splash'}),
(s2:Segment {segmentID: 'b', title:'Pups Fall Festival'});

Added 2 labels, created 2 nodes, set 4 properties, completed after 11 ms.

Added 2 labels, created 2 nodes, set 4 properties, completed after 11 ms.
```

Relate segment to episode



Relate segment to episode

Without using the segment title we need a PATH to identify a specific segment!



Create a relationship for Marshal and segment a in episode 3

Network graph

