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### How to declare a unique contraint with py2neo



asked 4 months ago

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I need ot enforce a unique contraint on my graph database. I found the following method:

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graph.schema.create\_uniqueness\_constraint("Website", "url")



But it yields the following error:



graph.schema.create\_uniqueness\_constraint("Website", "url") AttributeError: 'Schema' object has no attribute 'create\_uniqueness\_constraint'

My import and graph instentiation is:

```
from py2neo import neo4j,node
graph = neo4j.GraphDatabaseService("http://localhost:7474/db/data/")
```

What am I doing wrong, and how can I fix it?

Also, what's the simplest, cleanest way to add a uniqueness constraint with py2neo?

I'm getting confused with the abundance of methods, which sometime seem to fail without reason (couldn't find a comprehensive tutorial on py2neo), and I start to feel like I would be better off writing raw Cypher queries...



asked Apr 11 at 15:53 bsuire 95 • 10

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#### 1 Answer

It looks like you're on py2neo version 1.x and reading the docs for version 2.0. In py2neo 2.0:



from py2neo import Graph graph = Graph() graph.schema.create\_uniqueness\_constraint('Website', 'url')



In py2neo 1.x, I'm not sure there's a method for creating uniqueness constraints. You'll probably have to do:

```
from py2neo import neo4j
graph = neo4j.GraphDatabaseService("http://localhost:7474/db/data/")
neo4j.CypherQuery(graph, 'CREATE CONSTRAINT ON (w:Website) ASSERT w.url IS UNIQUE;')
```

EDIT: Updates per the questions in the comments below. OP is on py2neo 2.0.

Neo4j doesn't allow you to create a uniqueness constraint without specifying a label. However, this will be easy to accomplish in py2neo. You can use graph.node\_labels to get a list of all the labels in your graph, then you can iterate over those and create a uniqueness constraint on each label with the given property:

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```
from py2neo import Graph
         graph = Graph()
          labels = graph.node_labels
          for label in labels:
              graph.schema.create_uniqueness_constraint(label, 'url')
         Note that this will fail with a py2neo.error.ConstraintViolationException if the constraint
         already exists; you might want to wrap it in a try-except:
          for label in labels:
                   graph.schema.create_uniqueness_constraint(label, 'url')
              except:
                   pass
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