# Chapter 1. What's New?

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## **Neo4j Support**

**NoSQLUnit** supports *Neo4j* by using next classes:

### **Table 1.1. Lifecycle Management Rules**

In Memory	com.lordofthejars.nosqlunit.neo4j.	nMemoryNeo4
Embedded	com.lordofthejars.nosqlunit.neo4j.	mbeddedNeo4
Managed Wrapping	com.lordofthejars.nosqlunit.neo4j.N	lanagedWrappi
Managed	com.lordofthejars.nosqlunit.neo4j.N	lanagedNeoSer

### Table 1.2. Manager Rule

NoSQLUnit Management	com.lordofthejars.nosqlunit.neo4j.Neo4jRule
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Default dataset file format in *Neo4j* module is GraphML [http://graphml.graphdrawing.org/] . *GraphML* is a comprehensive and easy-to-use file format for graphs.

### **Example 1.1. Example of GraphML Dataset**

A simple example of using embedded *Neo4j* lifecycle management could be:

### Example 1.2. Embedded Neo4j

```
import static com.lordofthejars.nosqlunit.neo4j.EmbeddedNeo4j.EmbeddedNeo4jRuleBui
@ClassRule
public static EmbeddedNeo4j embeddedNeo4j = newEmbeddedNeo4jRule().build();
And for configuring Neo4j connection:
```

### Example 1.3. Neo4j with embedded configuration

```
import static com.lordofthejars.nosqlunit.neo4j.EmbeddedNeoServerConfigurationBuil
@Rule
public Neo4jRule neo4jRule = new Neo4jRule(newEmbeddedNeoServerConfiguration().bui
```

## Simultaneous engines

Sometimes applications will contain more than one *NoSQL* engine, for example some parts of your model will be expressed better as a graph ( Neo4J for example), but other parts will be more natural in a column way (for example using Cassandra). **NoSQLUnit** supports this kind of scenarios by providing in integration tests a way to not load all datasets into one system, but choosing which datasets are stored in each backend.

For declaring more than one engine, you must give a name to each database *Rule* using connection—Identifier() method in configuration instance.

### Example 1.4. Given a name database rule

And also you need to provide an identified dataset for each engine, by using withSelectiveLocations attribute of @UsingDataSet annotation. You must set up the pair "named connection" / datasets.

#### Example 1.5. Selective dataset example

```
@UsingDataSet(withSelectiveLocations =
    { @Selective(identifier = "one", locations = "test3") },
    loadStrategy = LoadStrategyEnum.REFRESH)
```

In example we are refreshing database declared on previous example with data located at *test3* file.

Also works in expectations annotation:

#### **Example 1.6. Selective expectation example**

```
@ShouldMatchDataSet(withSelectiveMatcher =
    { @SelectiveMatcher(identifier = "one", location = "test3")
    })
```

For more information see chapter about advanced features.

### **Support for JSR-330**

**NoSQLUnit** supports two annotations of JSR-330 aka Dependency Injection for Java. Concretely @Inject and @Named annotations.

During test execution you may need to access underlying class used to load and assert data to execute extra operations to backend. **NoSQLUnit** will inspect @Inject annotations of test fields, and try to set own driver to attribute. For example in case of MongoDb, com.mongodb.Mongo instance will be injected.

### Example 1.7. Injection example

### Warning

Note that in example we are setting this as second parameter to the Rule.

But if you are using more than one engine at same time (see chapter ) you need a way to distinguish each connection. For fixing this problem, you must use @Named annotation by putting the identifier given in configuration instance. For example:

#### **Example 1.8. Named injection example**

For more information see advanced features chapter.