Chapter 1. What's New?

Table of Contents

Neo4j Support	1
Simultaneous engines	2
Support for JSR-330	

Neo4j Support

NoSQLUnit supports *Neo4j* by using next classes:

Table 1.1. Lifecycle Management Rules

Embedded	com.lordofthejars.nosqlunit.neo4j.EmbeddedNeo4
Managed Wrapping	com.lordofthejars.nosqlunit.neo4j.ManagedWrapp
Managed	com.lordofthejars.nosqlunit.neo4j.ManagedNeoSe

Table 1.2. Manager Rule

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.