

NMS QUERY EDITOR

V 0.1



PDF version available online at <http://static.neuro4j.org/download/doc/studio/NMSQueryEditor.pdf>

ABOUT THIS GUIDE

This guide describes how to use NMS Query Editor with Neuro4j Database.

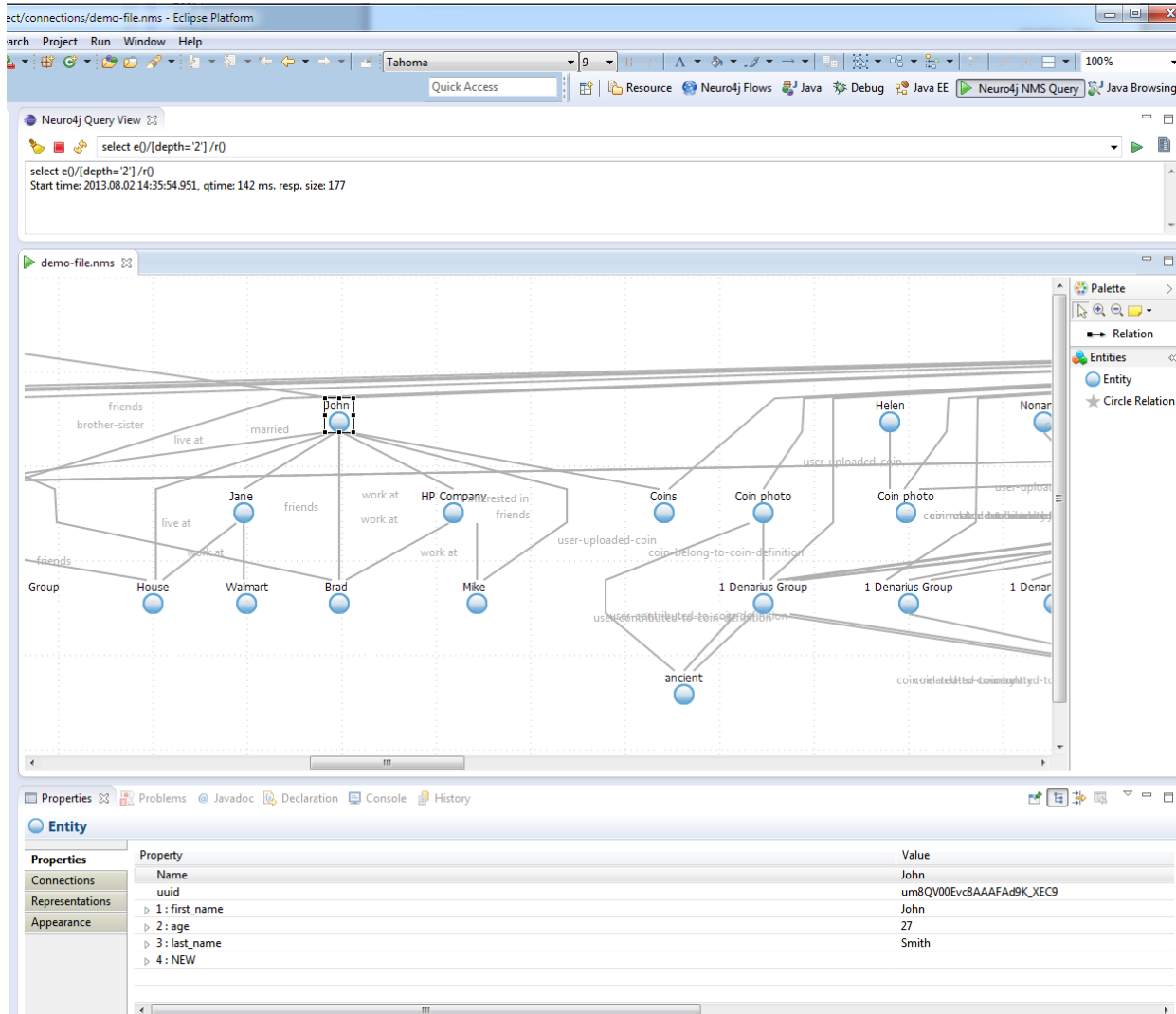
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OVERVIEW

Application Summary

NMS Query Editor allows users connect to NeuroStorage, execute queries and update network.



The screenshot displays the Neuro4J NMS Query Editor interface. At the top, a menu bar includes 'File', 'Project', 'Run', 'Window', and 'Help'. Below the menu bar, a toolbar contains various icons for navigation and execution. The main workspace is divided into several panels:

- Neuro4j Query View:** Shows the executed query: `select e0/[depth='2'] /r0`. Below the query, it displays the execution details: `Start time: 2013.08.02 14:35:54.951, qtime: 142 ms, resp. size: 177`.
- demo-file.nms:** A network diagram showing entities (represented by blue circles) and their relationships (represented by lines). The entities include 'John', 'Jane', 'Brad', 'Mike', 'House', 'Walmart', 'HP Company', 'Coins', 'Coin photo', 'Helen', 'Nonan', '1 Denarius Group', and 'ancient'. Relationships are labeled with terms like 'friends', 'live at', 'married', 'work at', 'rested in', 'user-uploaded-coin', 'coin belong to coin definition', 'user-uploaded-coin', 'coin related to coin definition', 'coin related to coin definition', and 'coin related to coin definition'.
- Properties:** A table showing the properties of the selected entity 'John'.

Property	Value
Name	John
uuid	um8QV00Evc8AAAFAd9K_XEC9
1: first_name	John
2: age	27
3: last_name	Smith
4: NEW	

INSTALLATION STEPS

NMS client is a plugin for Eclipse platform. To install plugins follow steps described in [Instalattion Guide](http://neuro4j.org/docs/wf/installguide) (<http://neuro4j.org/docs/wf/installguide>)

NMS CLIENT CONNECTION FILE FORMAT

NMC Client connection file has extension .nms. It is property file which holds specific storage settings:

Example (if storage based on file):

```
demo-file.nms  ✕
1 #####
2 n4j.manager.storage=org.neuro4j.storage.xml.XMLNeuroStorage
3 n4j.storage.xml.file_path=E:/dev/local/neuro4j/nms/demo/storage-demo/data/demo-storage/data/demo_storage.xml
4 n4j.storage.representations_dir=E:/dev/local/neuro4j/nms/demo/storage-demo/data/demo-storage/ceps
5 n4j.storage.read_only=true
6 |
```

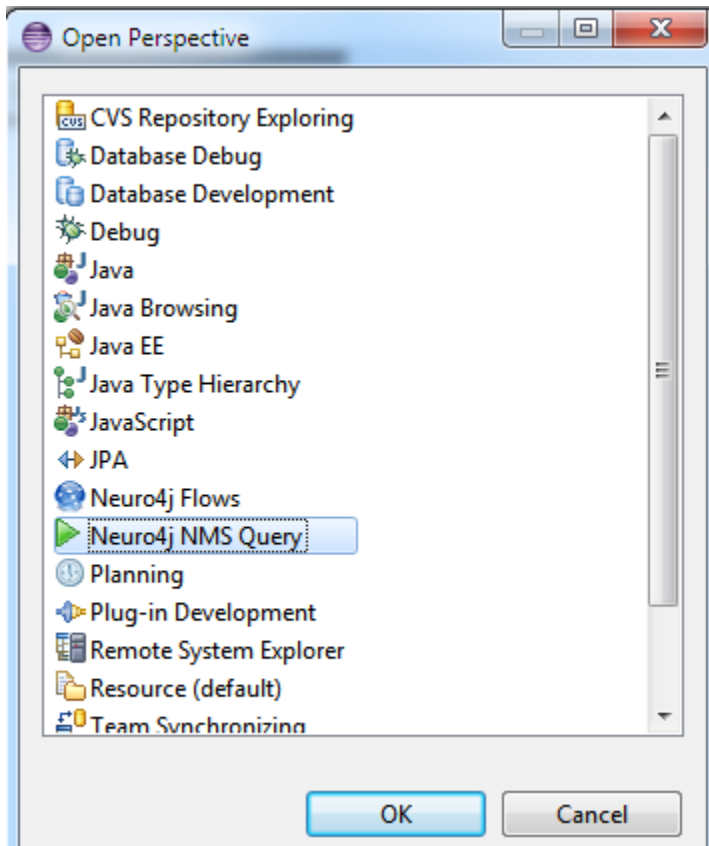
Example (if storage is nms server):

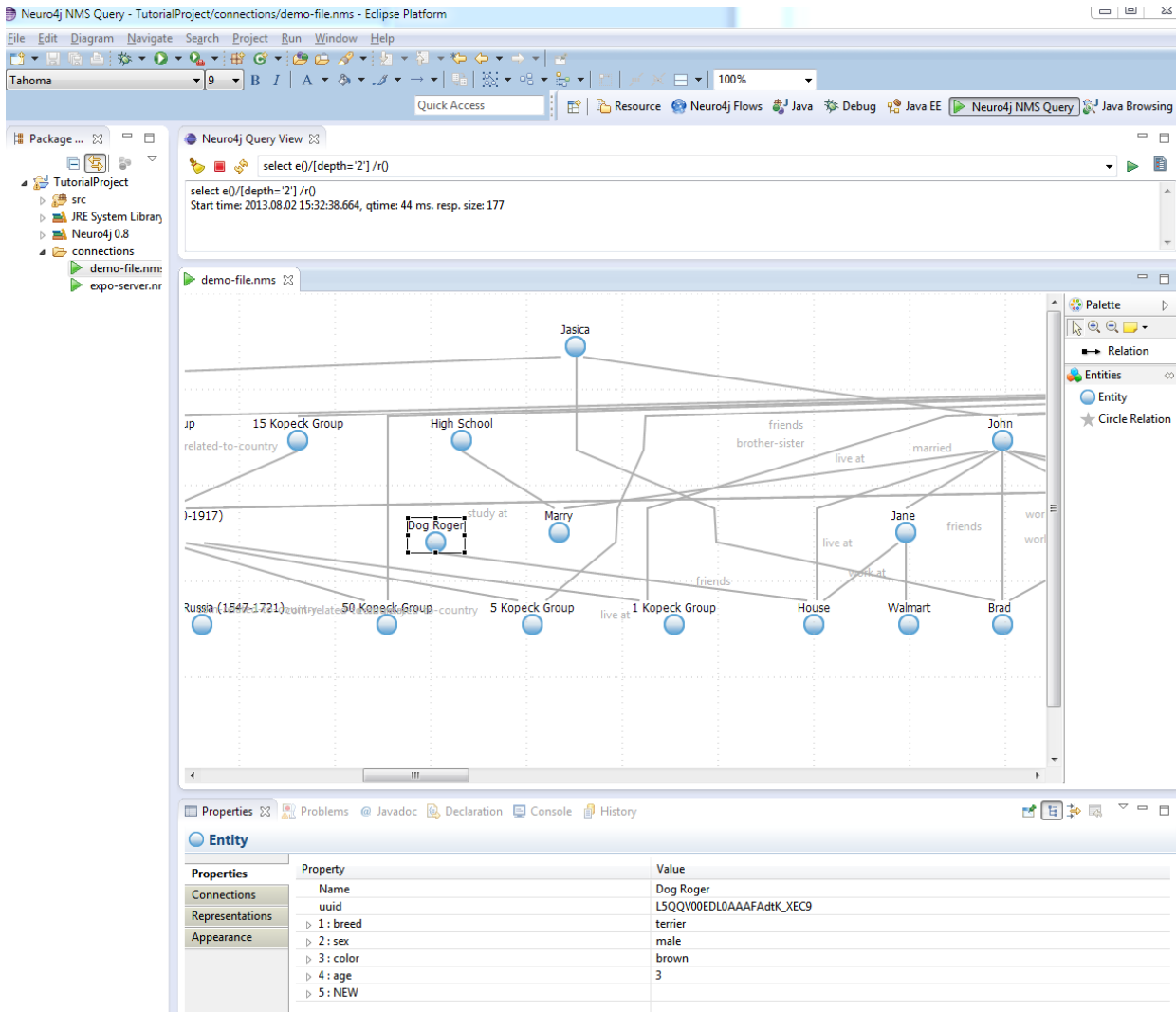
```
expo-server.nms  ✕
1 #####
2 n4j.manager.storage=org.neuro4j.nms.client.j.NMSClient
3 org.neuro4j.nms.client.server_url=http://localhost:8080/nms/expsys-demo
4 n4j.storage.read_only=true
5 |
```

PERSPECTIVE

Neuro4j Studio has perspective associated with .nms files.

Click on Windows->Open Perspective->Others-> NMS Query





The screenshot shows the Neuro4J NMS Query interface. The top toolbar includes File, Edit, Diagram, Navigate, Search, Project, Run, Window, and Help. The main window is titled "Neuro4J Query View" and contains a query editor with the text: `select e0/[depth='2']/r0`. Below the query editor, the execution results are displayed: `select e0/[depth='2']/r0` and `Start time: 2013.08.02 15:32:38.664, qtime: 44 ms. resp. size: 177`.

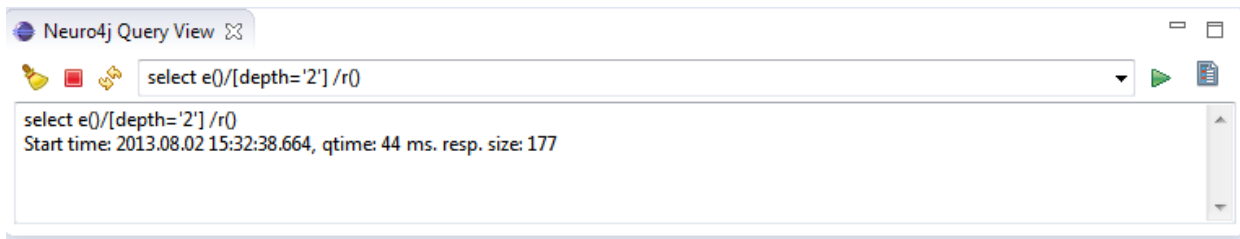
The central area displays a graph visualization of the data. The graph consists of nodes representing entities and relationships. Nodes include "Jasica", "John", "Jane", "Marry", "Dog Roger", "High School", "House", "Walmart", "Brad", "15 Kopeck Group", "50 Kopeck Group", "5 Kopeck Group", "1 Kopeck Group", "Russia (1547-1721)", "jp", "related-to-country", "study at", "friends", "brother-sister", "live at", "married", "work at", and "work". Relationships are labeled with terms like "friends", "brother-sister", "live at", "married", "work at", "study at", "related-to-country", and "live at".

The bottom right corner shows a "Properties" panel for the selected entity "Dog Roger". The properties are listed in a table:

Property	Value
Name	Dog Roger
uuid	LSQQV00EDL0AAAFAadtK_XEC9
1: breed	terrier
2: sex	male
3: color	brown
4: age	3
5: NEW	

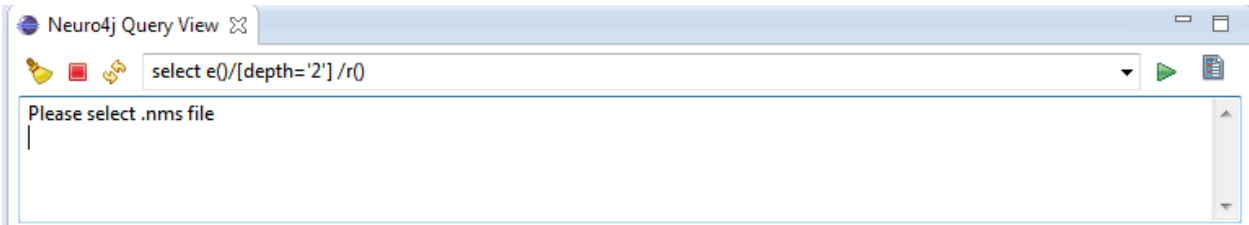
NEURO4J QUERY VIEW

Query View allows run query to Neuro4jStorage.

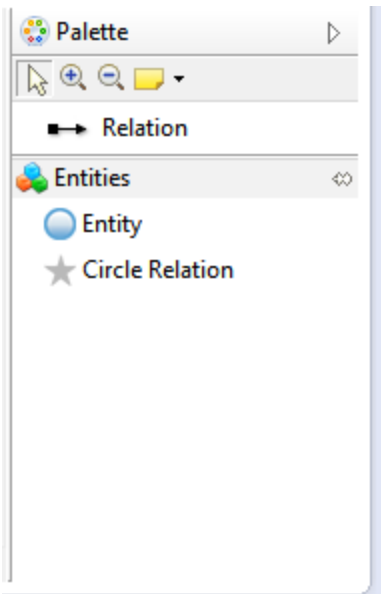


The screenshot shows the Neuro4J Query View interface. The top toolbar includes File, Edit, Diagram, Navigate, Search, Project, Run, Window, and Help. The main window is titled "Neuro4J Query View" and contains a query editor with the text: `select e0/[depth='2']/r0`. Below the query editor, the execution results are displayed: `select e0/[depth='2']/r0` and `Start time: 2013.08.02 15:32:38.664, qtime: 44 ms. resp. size: 177`.

If Editor has not been connected to any storage – info message will be displayed in console




PALETTE

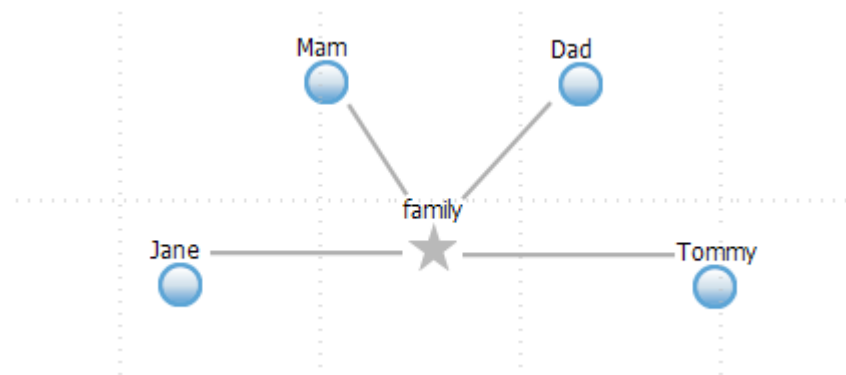


Palette allows modify network, create new entities and define relations between entities.

 **Entity** creates new entity;

 **Circle Relation** creates relation group;

Example:



 **Relation** creates relation between 2 entities;



Example:

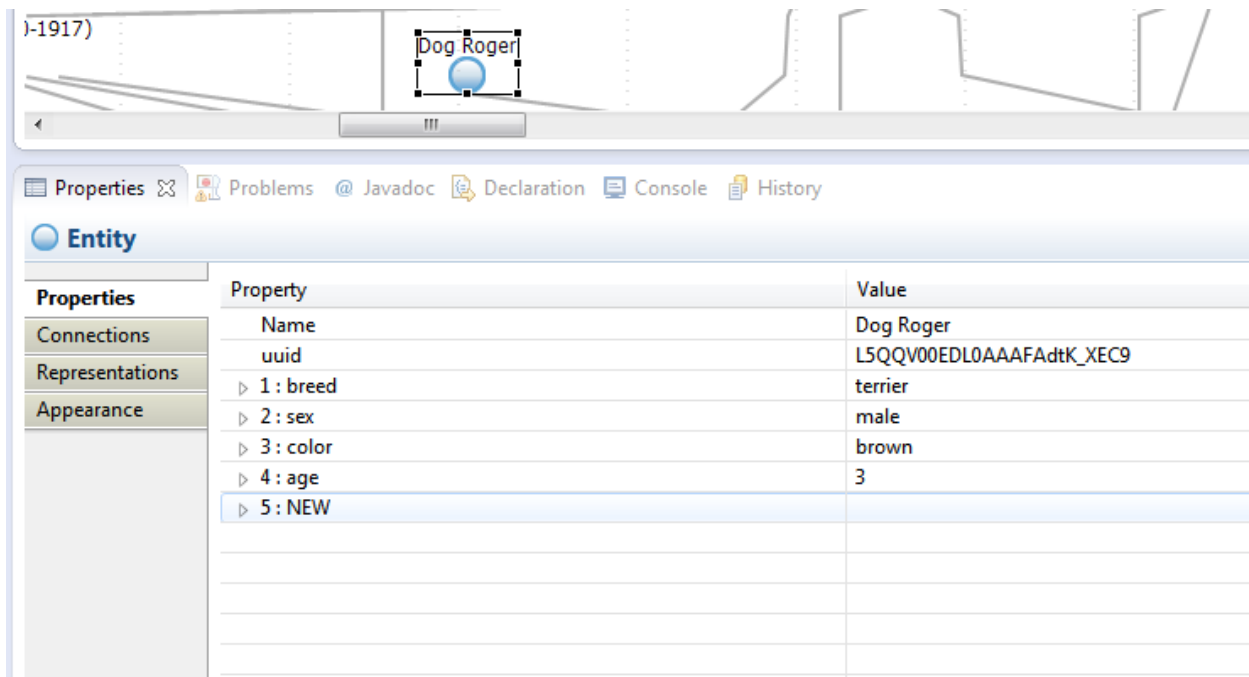
If connection has property "n4j.storage.read_only=true" – network can not be saved.

ENTITY/RELATION PROPERTIES

Each Entity and Relation has specific properties. To see these property click on Entity – “Property View” will display information associated with selected Entity.

Main Tabs are:

- Properties;
- Connections;
- Representations;



The screenshot shows the Neuro4J interface with a diagram of a dog entity labeled 'Dog Roger' selected. Below the diagram, the 'Entity' properties tab is open, displaying a table of properties and their values.

Property	Value
Name	Dog Roger
uuid	LSQQV00EDL0AAAFAdtK_XEC9
▶ 1 : breed	terrier
▶ 2 : sex	male
▶ 3 : color	brown
▶ 4 : age	3
▶ 5 : NEW	

PROPERTIES TAB

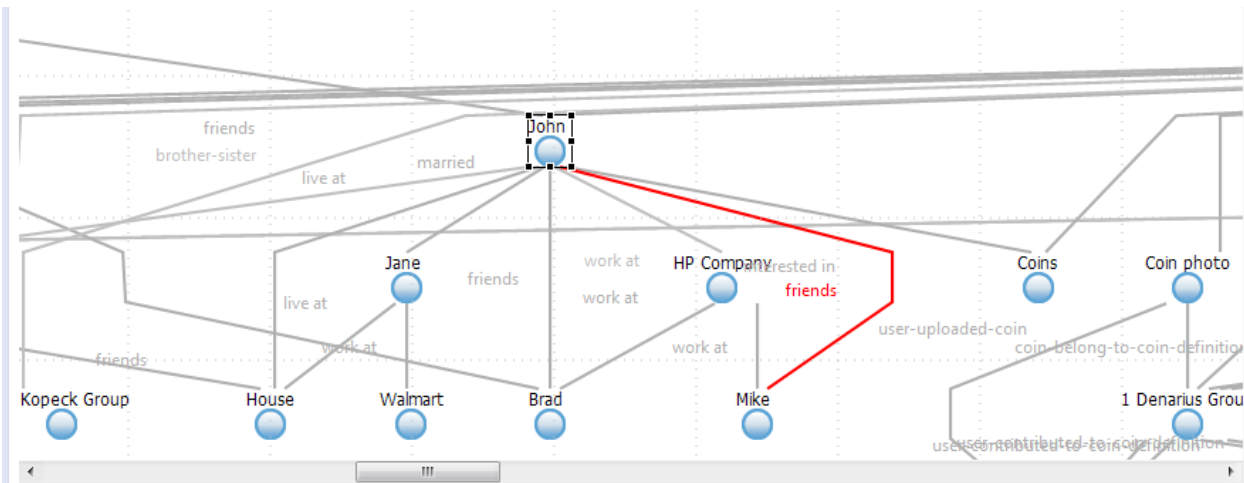
Property Tab displays main properties. It also allows to create new property.

▶ 3 : color	brown
▶ 4 : age	3
▲ 5 : NEW	
Name	NEW
Value	

CONNECTIONS TAB

Connections Tab displays all connections related to selected entity/relation.

You can highlight connection by click on connection name in property tab.



Properties Problems Javadoc Declaration Console History


Entity

Property	Value
interested in	
FmQQV00EYX8AAAFAD9W_XEC9	
work at	
married	
friends	
DpYQV00EgWAAAFAdK_XEC9	Mike
qhUQV00Ege4AAAFAdK_XEC9	Jasica
yqAQV00Ege0AAAFAdK_XEC9	Brad
brother-sister	
live at	

REPRESENTATIONS TAB

Representations Tab displays all representation related to entity.

Entity

Property	Value
JQMQR00EDL4AAAFAdtK_XEC9	
file	file 
size	30126
type	byte[]
uuid	JQMQR00EDL4AAAFAdtK_XEC9

To save representation file click on button near "file" property and select path.