
Eclipse DTP Tutorial - Database Tools

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Revision History

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bug fixes and enhancements		
Revision 0.8 - 0.9	24.06.2009 - 25.01.2010	Lars Vogel
Upgrade to Eclipse 3.5 (Galileo)		
Revision 1.0		Lars Vogel
Update to Eclipse 3.6 (Helios)		

Eclipse Data tools Platform

The Eclipse Data Tools Platform (DTP) provides tools to simplify the handling of databases. This article demonstrates the usage of the Eclipse DTP.

This article is based on Eclipse Helios (Eclipse 3.6).

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[Securing Eclipse RCP apps](#) for safety-critical industries. Free whitepaper. www.excelsior-usa.com

[JBoss Training von RedHat](#) Finden Sie Ihr Kursniveau mit unserem kostenlosen Test! www.de.redhat.com

[Database / ER-Diagramming](#) Create State-of-the-Art Database Diagrams with DeZign for Databases www.datanamic.cc

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1. Introduction

1.1. Eclipse Data Tools Platform

The Eclipse DTP project provide tools for performing database tasks. For example the project provides an editor for SQL statements or a database browser.

1.2. Derby - Java DB

In this article [Apache Derby](#) is used as the example database. Derby is an open-source, freely available, pure Java database. See [Apache Derby Tutorial](#) to learn more about Apache Derby. Eclipse DTP contains connectors for lots of other

databases, e.g. MySQL, PostgreSQL, HSQLDB.

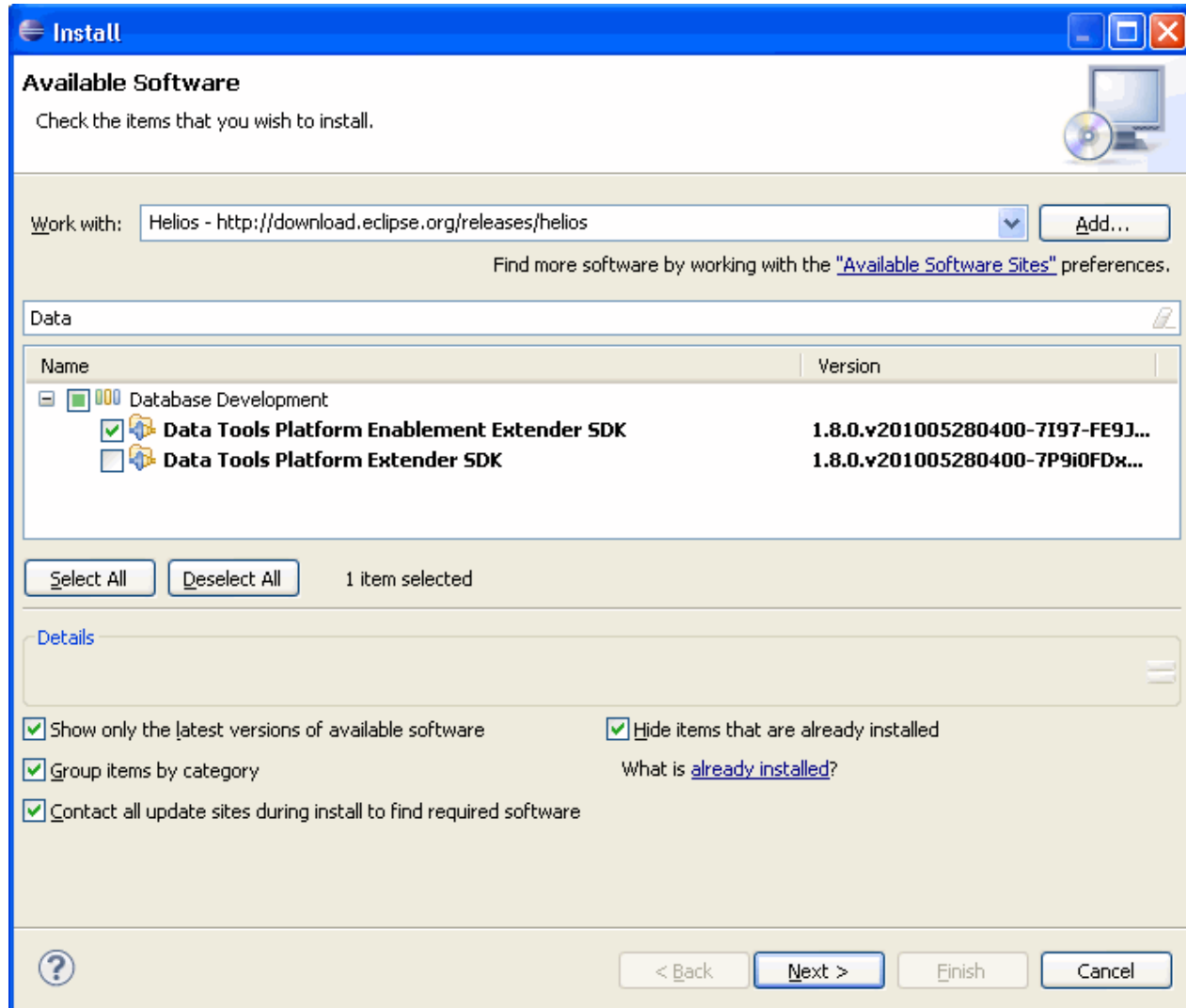
1.3. Using Eclipse

The following assumes that you already have knowledge in using the [Eclipse IDE](#). See the [Eclipse Java IDE Tutorial](#) in case you lacking this knowledge.

2. Installation

2.1. Installation of DTP

Install the Data Tools Platform via the [Eclipse update manager](#). Install "Data Tools Platform Enablement Extender SDK"



2.2. Download Apache Derby

Download the latest Derby version from the Apache website <http://db.apache.org/derby/>. Choose the binary distribution.



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3. Project

Create a new General Project "de.vogella.dtp.example" via File-> New -> Other -> General -> Project. This project will store the SQL files.

Add a folder "lib" to your project. Copy the file derby.jar from your Derby download into this folder.

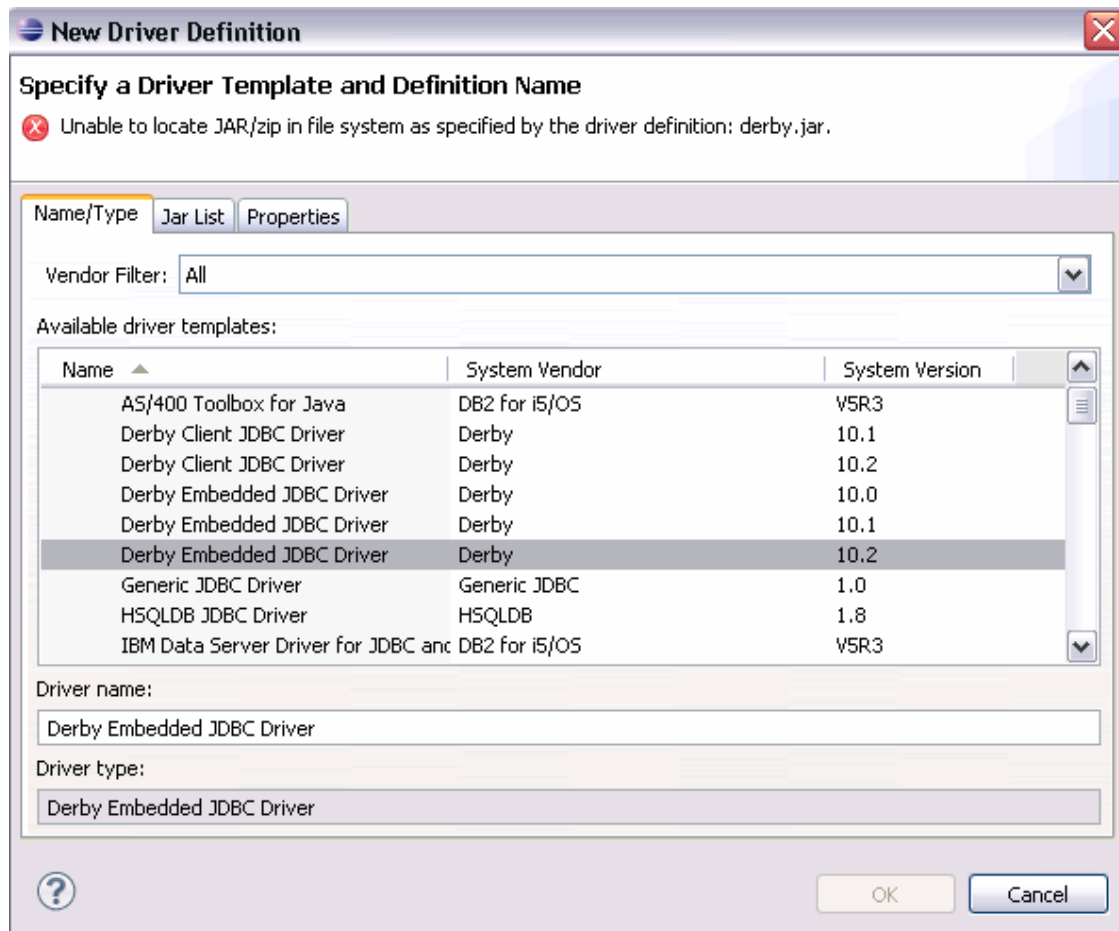
The result should look like the following.



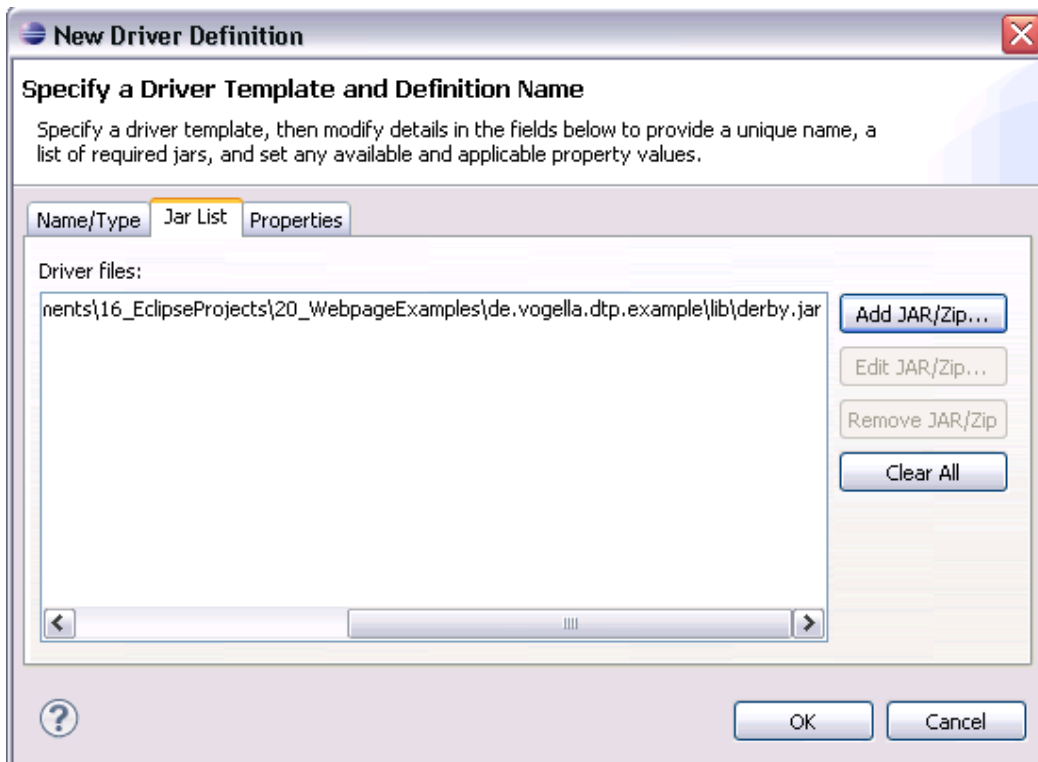
4. Configuration

The following will create a connection for an embedded Derby.

Define the driver for the derby access. Go to Window-> Preferences and select "Data Management" -> Connectivity -> Driver Definition. Press Add. Select Derby and the version you want to use. If your Derby version is not listed selected the highest number displayed.



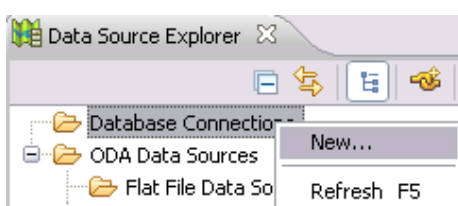
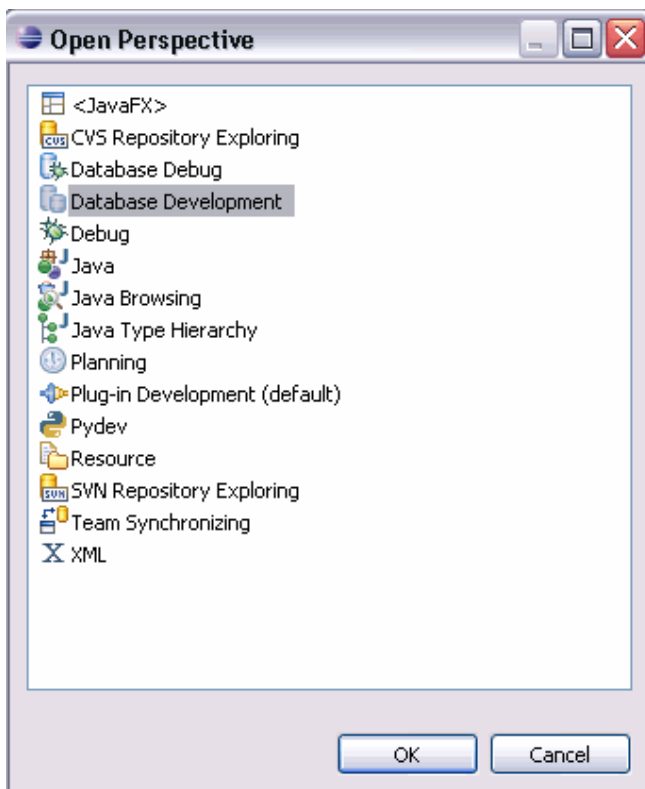
Select then the tab jar press "Add" and select the derby.jar from your project folder "lib".



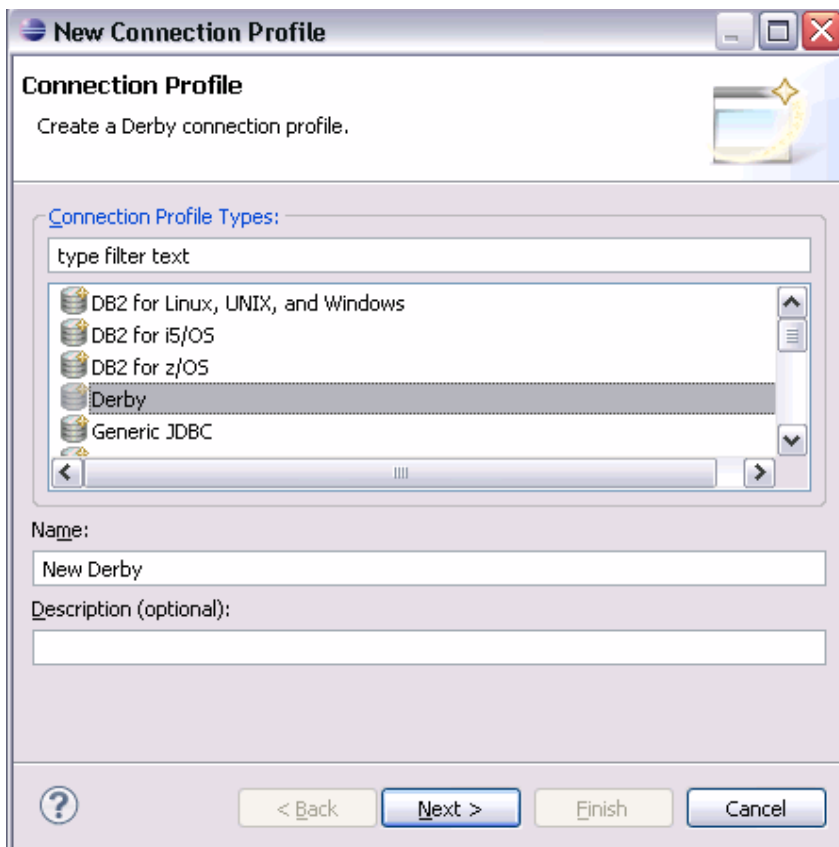
5. Working with Databases

5.1. Create a new Databases Connection

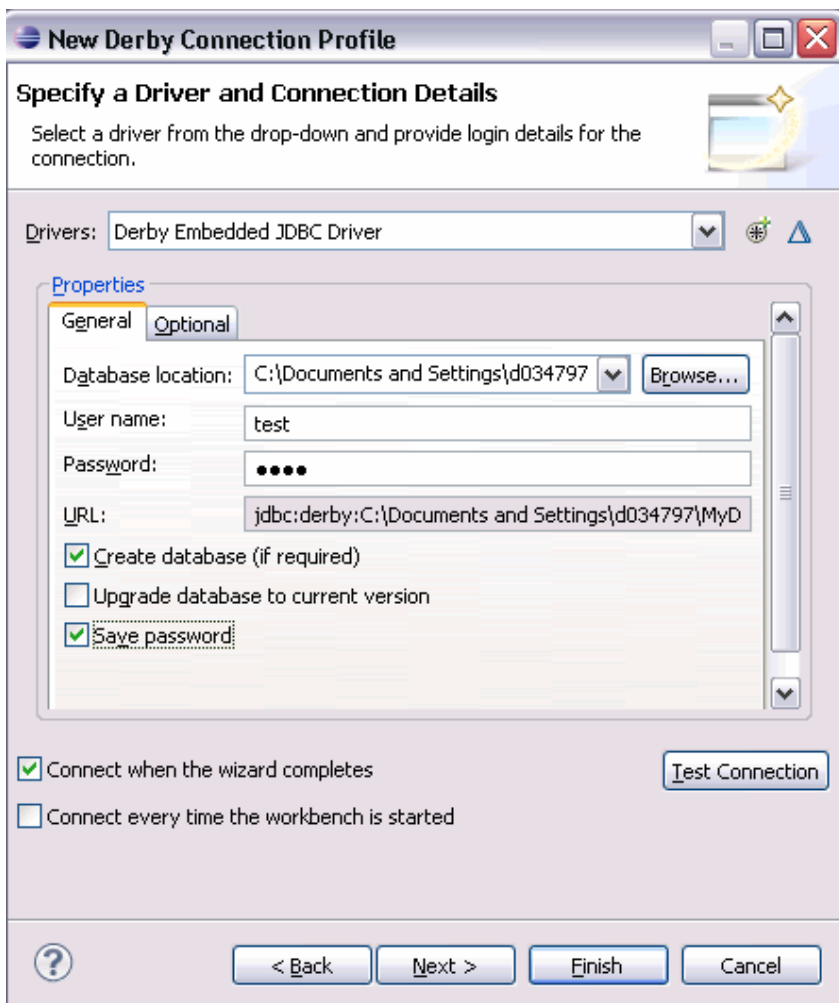
Switch to the perspective "Database Development" and select "Database Connections", right mouse click and select new.



Select Derby.



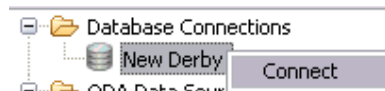
Maintain a Database location where the new database should be stored on your file system. The flag "Create database (if required)" should be selected. Maintain user and password and press finish.



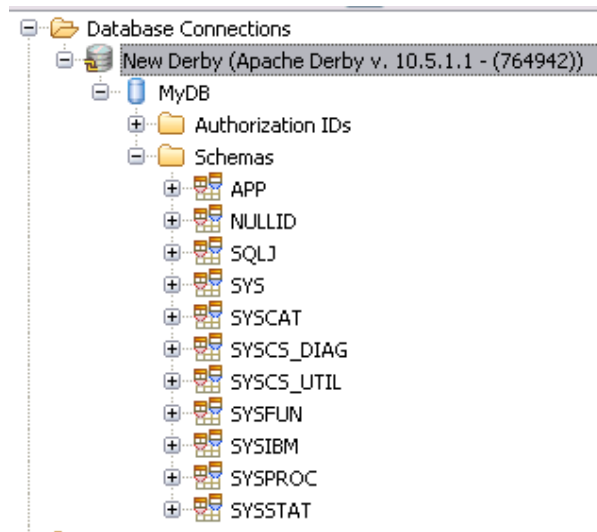
Congratulation! You have created a new database.

5.2. Create a new Databases Connection

Now your folder Database should have an additional entry. Right it and select connect (if you not connected).



Open then tree to see the content of your new database.

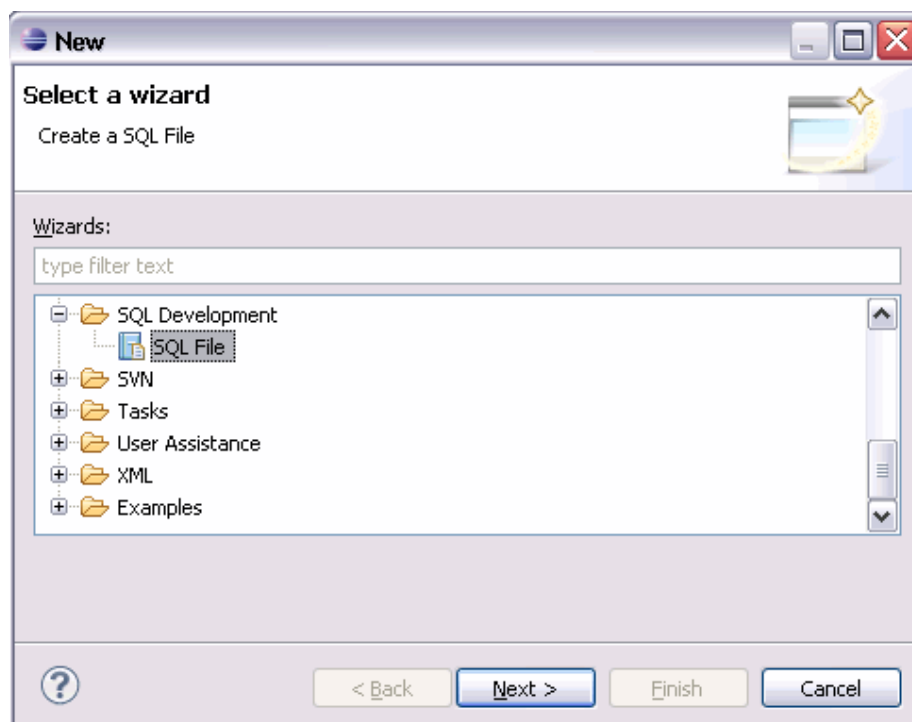


Congratulation. You have connected yourself to the new database.

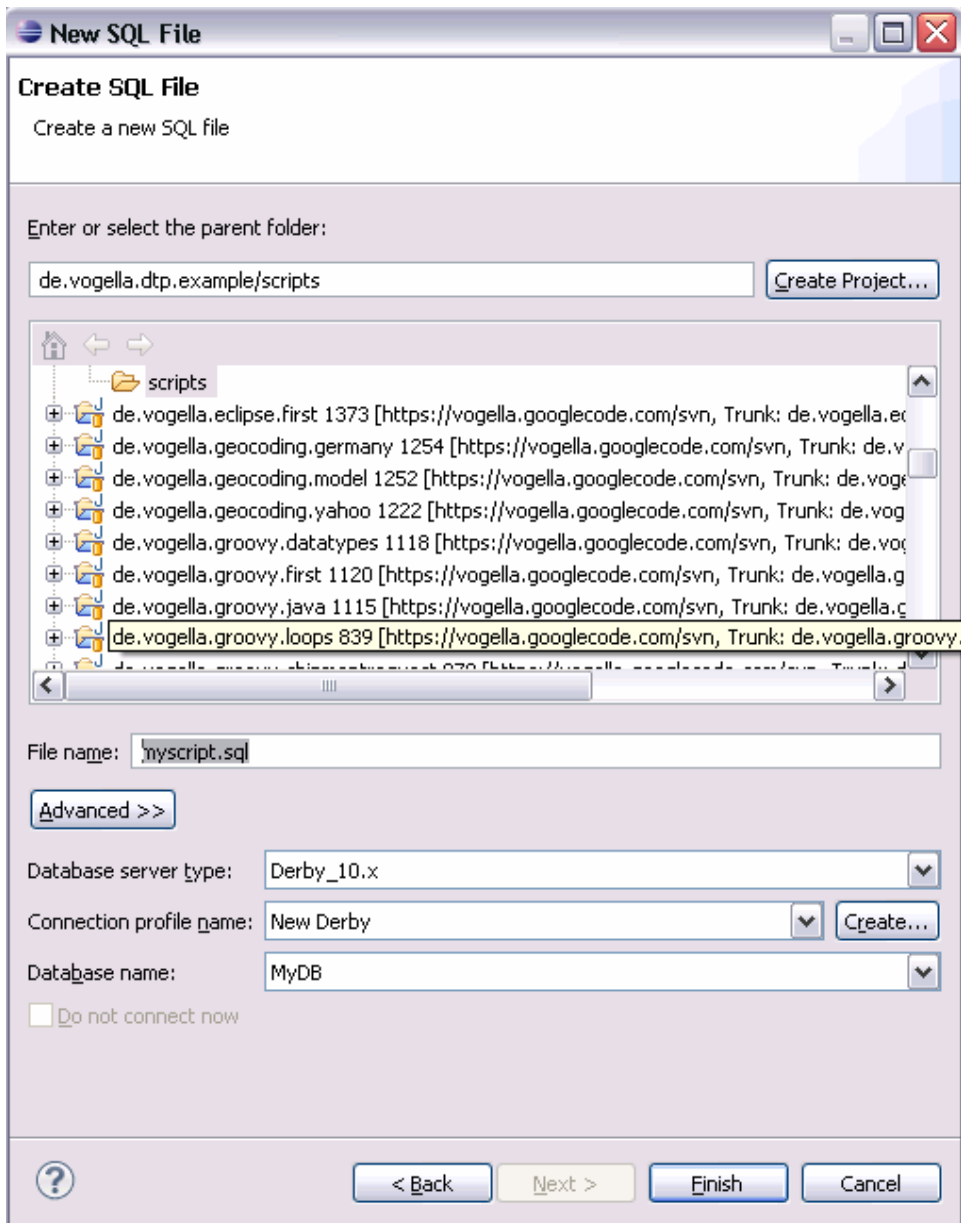
Sometimes you have to disconnect and connect again to see the changes you did. For example if you create a new database schema.

6. Using SQL Statements

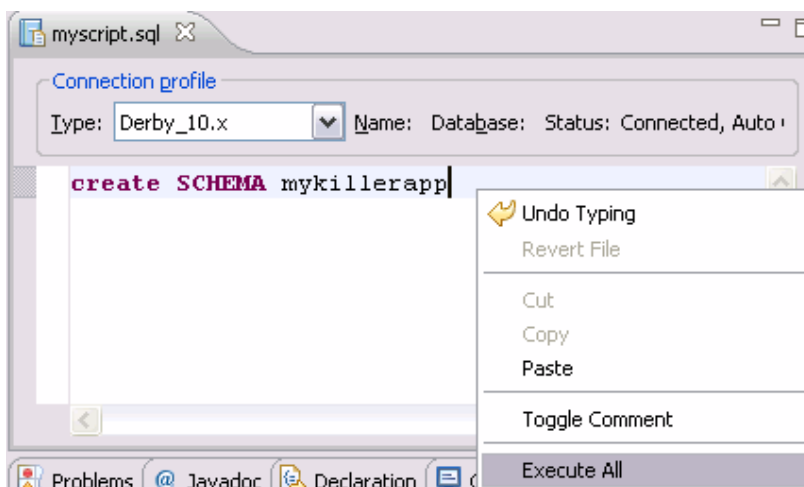
Switch back to the Java perspective. Create a folder "scripts". Right click on it, select New -> Other and SQL Development and SQL File.

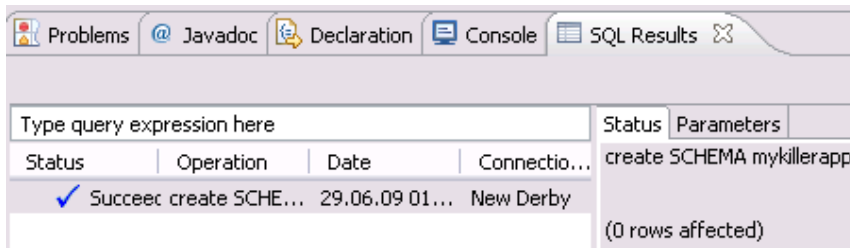


Maintain the folder "scripts" as a target, name the file "myscript.sql" and maintain the connection you have created earlier.



Maintain a SQL statement, e.g. the creation of a Database schema, right click and select "Execute all". After running the script you see the result in the "SQL Results" view.





Switch back to "Database development" perspective, right click on your database and select refresh to see your new schema. You could continue now writing SQL statements to create your database, e.g. creating a table via SQL.

7. Maintaining data in a table

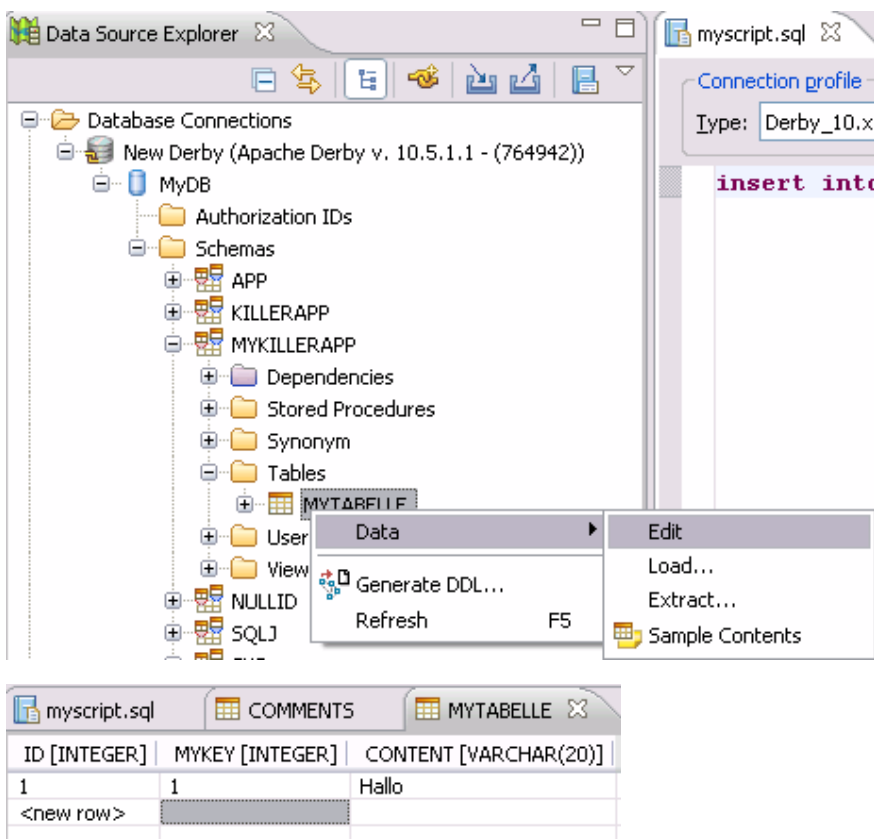
Create a table with the following coding.



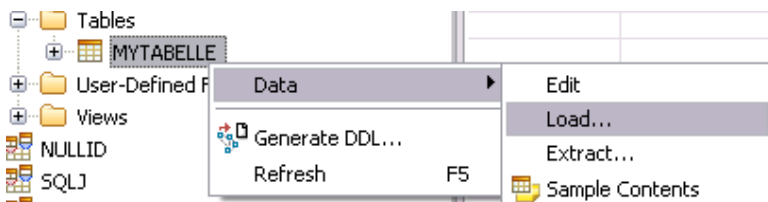
Put in some data via SQL



Refresh your database and select your new table, right click on your table and select Data->Edit. Now you can edit the data.



Also note that Eclipse Data Tools Platform allows you to upload / download the data and also to see a sample of the content.



8. Thank you

Please help me to support this article:



9. Questions and Discussion

Before posting questions, please see the [vogella FAQ](#) . If you have questions or find an error in this article please use the www.vogella.de [Google Group](#) . I have created a short list [how to create good questions](#) which might also help you.

10. Links and Literature

10.1. vogella Resources

[Eclipse RCP Training](#) Join my Eclipse RCP Training to become an RCP Expert in 5 days (Training in German)

[Android Tutorial](#) Introduction to Android Programming

[GWT Tutorial](#) Program in Java and compile to JavaScript and HTML

[Eclipse RCP Tutorial](#) Create native applications in Java

[JUnit Tutorial](#) Test your application

[Git Tutorial](#) Put everything you have under distributed version control system