Metacat - Bug #183

Port metacat to PostgresSQL and other databases

02/14/2001 11:59 AM - Matt Jones

Status:	Resolved		**Start date:**	02/14/2001
Priority:	Immediate		**Due date:**	
Assignee:	Owen Eddins		**% Done:**	0%
Category:	metacat		**Estimated time:**	0.00 hour
Target version:	Beta2		**Spent time:**	0.00 hour
Bugzilla-Id:	183			

Description

To install Metacat broadly at research stations, we need to eliminate the requirement for Oracle as a backend DB. Thus, we need to port Metacat so that it can use PostgresSQL and probably MS SQL Server. To do this, we should create a database interface class that implements the SQL calls needed for each database system. At runtime, Metacat would then load the proper database adapter (that implements the interface) and thus have access to the specific SQL cals needed to access that database. The changes to Metacat involved in this will mainly be limited to two classes (DocumentImpl.java and QuerySpecification.java) as these are the main classes that execute SQL calls, although there will also be some work needed in the AccessControlList.java, DBDTDHandler, DBEntityResolver, DBSAXHandler, DBSAXNode, DBUtil, ForceReplication and ReplicationHandler classes. Owen has agreed to work on this as well.

History

#1 - 02/14/2001 12:05 PM - Matt Jones

John Harris has agreed to look into the use of an embedded database for portions of metacat and the plots db client software, and so should work with Owen to develop a suitable database abstraction interface that would work for the embedded database situation as well as postgres and sql server.

#2 - 04/09/2001 12:22 PM - Matt Jones

At Santa Barbara meeting, agreed to create a generic database interface and a series of adapters for each supported datbase type, including oracle, SQL Server, PostgresSQL, Enhydra instantDB, etc.

#3 - 05/29/2001 12:54 PM - Matt Jones

I noticed that new classes that implement this functionality were checked in (by Jivka). I have some file naming suggestions. The current interface is called "DBAdapter", when in Java-ese an "Adapter" is usually a specific implementation of an interface. So here's what I suggest to rename the files:

DBAdapter.java --> AbstractDatabase.java
DBOracle.java --> OracleAdapter.java
DBPostgresql.java --> PostgresqlAdapter.java

What do you think?

#4 - 07/13/2001 03:38 PM - Jivka Bojilova

DONE

#5 - 03/27/2013 02:13 PM - Redmine Admin

Original Bugzilla ID was 183