

**NAME**

MQdb::DBStream – DESCRIPTION of Object

**SYNOPSIS**

A simplified object to manage a collection of information related to streaming data from a database. at least with MYSQL, the perl driver does odd caching so to stream one needs to create a new database connection in order to stream

**DESCRIPTION****CONTACT**

Jessica Severin <jessica DOT severin AT gmail DOT com>

**LICENSE**

```
* Software License Agreement (BSD License)
* MappedQueryDB [MQdb] toolkit
* copyright (c) 2006-2009 Jessica Severin
* All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*     * Redistributions of source code must retain the above copyright
*       notice, this list of conditions and the following disclaimer.
*     * Redistributions in binary form must reproduce the above copyright
*       notice, this list of conditions and the following disclaimer in the
*       documentation and/or other materials provided with the distribution.
*     * Neither the name of Jessica Severin nor the
*       names of its contributors may be used to endorse or promote products
*       derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ''AS IS'' AND ANY
* EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS BE LIABLE FOR ANY
* DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

**APPENDIX**

The rest of the documentation details each of the object methods. Internal methods are labeled.

**set\_stream\_userresult\_behaviour**

Description : sets a global behaviour for all DBStreams.

setting use\_result to "on" will leave the results on the database  
will keep the database connection open durring streaming.  
Both methods have similar speed performance, but keeping the res  
on the database server means the client uses essentially no memo  
The risk of turning this on is that the the database connection  
and there is risk of it timing out if processing takes a long ti  
When turned off, the entire result set is transfered in bulk to  
and streaming happens from the underlying driver code and the pe  
Default is "off" since this is safer but one risks needing lots o

Parameter[1] : 1 or "y" or "on" turns the use\_result on and keeps the database  
Returntype : none  
Exceptions : none  
Example : MQdb::DBStream->set\_stream\_userresult\_behaviour(1);

**next\_in\_stream**

Description: gets the next object in the stream. If the stream is empty it returns undef.  
 Returntype : instance of the defined DBStream::stream\_class, or undef  
 Exceptions : none  
 Example :

```
my $stream = WorldKit::Person->stream_all_by_country_region($db,
while(my $person = $stream->next_in_stream) {
    #do something
}
```

**as\_array**

Description: instantiates all remaining instances in the stream and returns them as an array.  
 Returntype : reference to array of instances of the defined class of this stream.  
 Exceptions : none  
 Example :

```
my $stream = WorldKit::Person->stream_all_by_country_region($db,
my $all_people = $stream->as_array; #because I have a large memory
foreach my $person (@$all_people) {
    #do something
}
```

**stream\_database**

Description: this is an internal system method.  
 Needs to have two database connections open, one for the active stream handle, and one for lazy-loading additional data on the returned objects. This is used to set the database which is the one stream uses.  
 Arg (1) : \$database (MQdb::Database) for setting  
 Returntype : MQdb::Database  
 Exceptions : none  
 Callers : MQdb::MappedQuery

**stream\_class**

Description: this is an internal system method.  
 Set/get the class used for creation of objects on this stream.  
 The class must be a subclass of MQdb::MappedQuery  
 Arg (1) : \$class (must be subclass of MQdb::MappedQuery) for setting  
 Returntype : a class which is a subclass of MQdb::MappedQuery  
 Exceptions : none  
 Callers : MQdb::MappedQuery

**prepare**

Description: this is an internal system method. It is used to set the SQL query to stream objects out of a database. Must be have stream\_class() set to a subclass of MappedQuery which implements the mapRow() method.  
 Returntype : \$self  
 Exceptions : none  
 Callers : MQdb::MappedQuery

