

Backport187 - Bug #2244

object allocation bug with ActiveRecord

10/21/2009 06:47 PM - ASUS1983 (Henning Möller)

Status:	Rejected
Priority:	Normal
Assignee:	naruse (Yui NARUSE)
Target version:	
ruby -v:	1.8.7
Description	
=begin /usr/lib/ruby/gems/1.8/gems/activerecord-2.3.4/lib/active_record/connection_adapters/abstract/query_cache.rb:85: [BUG] object allocation during garbage collection phase ruby 1.8.7 (2008-06-20 patchlevel 22) [x86_64-linux] =end	

History

#1 - 10/21/2009 07:17 PM - naruse (Yui NARUSE)

- Subject changed from Bug to object allocation bug with ActiveRecord

- Status changed from Open to Feedback

- Priority changed from 5 to Normal

=begin

It seems to be caused by Third Party's extension library.

Can you show us more details of this?

=end

#2 - 10/21/2009 08:31 PM - murphy (Kornelius Kalnbach)

=begin

The affected code is the line

```
result.collect { |row| row.dup }
```

in this method:

```
module ActiveRecord
  module ConnectionAdapters # :nodoc:
    module QueryCache
      class << self
        def included(base)
          base.class_eval do
            alias_method_chain :columns, :query_cache
            alias_method_chain :select_all, :query_cache
          end
        end
      end
    end
  end
end
```

```
      dirties_query_cache base, :insert, :update, :delete
    end
```

```
    def dirties_query_cache(base, *method_names)
      method_names.each do |method_name|
        base.class_eval <<-end_code, __FILE__, __LINE__
          def #{method_name}_with_query_dirty(*args)
            clear_query_cache if @query_cache_enabled
            #{method_name}_without_query_dirty(*args)
          end
          # def update_with_query_dirty(*args)
          #   clear_query_cache if @query_cache_enabled
          #   update_without_query_dirty(*args)
          # end
          #
          alias_method_chain :#{method_name}, :query_dirty # alias_method_chain :update, :query_dirty
        end_code
      end
    end
  end
end
```

```
    attr_reader :query_cache, :query_cache_enabled
```

```

# Enable the query cache within the block.
def cache
  old, @query_cache_enabled = @query_cache_enabled, true
  @query_cache ||= {}
  yield
ensure
  clear_query_cache
  @query_cache_enabled = old
end

# Disable the query cache within the block.
def uncached
  old, @query_cache_enabled = @query_cache_enabled, false
  yield
ensure
  @query_cache_enabled = old
end

# Clears the query cache.
#
# One reason you may wish to call this method explicitly is between queries
# that ask the database to randomize results. Otherwise the cache would see
# the same SQL query and repeatedly return the same result each time, silently
# undermining the randomness you were expecting.
def clear_query_cache
  @query_cache.clear if @query_cache
end

def select_all_with_query_cache(*args)
  if @query_cache_enabled
    cache_sql(args.first) { select_all_without_query_cache(*args) }
  else
    select_all_without_query_cache(*args)
  end
end

def columns_with_query_cache(*args)
  if @query_cache_enabled
    @query_cache["SHOW FIELDS FROM #{args.first}"] ||= columns_without_query_cache(*args)
  else
    columns_without_query_cache(*args)
  end
end

private
def cache_sql(sql)
  result =
    if @query_cache.has_key?(sql)
      log_info(sql, "CACHE", 0.0)
      @query_cache[sql]
    else
      @query_cache[sql] = yield
    end

  if Array === result
    result.collect { |row| row.dup }
  else
    result.duplicable? ? result.dup : result
  end
rescue TypeError
  result
end

end
end
=end

```

#3 - 10/21/2009 09:27 PM - ASUS1983 (Henning Möller)

```

=begin
How we can fix this or use another ext. library?
=end

```

#4 - 10/21/2009 10:48 PM - naruse (Yui NARUSE)

=begin

What is this 'row'?

I think, this 'row' is SQLite or MySQL or PostgreSQL or some DB object.
And its bug around dup method causes this behavior.

So what is your DB adaptor?

OR show me value of \$".

=end

#5 - 10/22/2009 02:55 AM - drbrain (Eric Hodel)

- Assignee changed from drbrain (Eric Hodel) to naruse (Yui NARUSE)

=begin

=end

#6 - 12/14/2009 12:09 PM - naruse (Yui NARUSE)

- Status changed from Feedback to Rejected

=begin

This is third party's issue

=end