I'm currently working on updating some plugins for the usage with Redmine 4.1.0.

And noticed I cannot init Redmine while my plugins are already located in plugins-folder.

I stripped it down to an patch for IssueQuery included in the plugin.

Here's a minimal plugin to trigger the issue:

```ruby
require 'redmine'

module RedmineA
  module IssueQueryPatch
  end

  module ProjectPatch
  end
end

Rails.configuration.to_prepare do
  unless Project.included_modules.include? RedmineA::ProjectPatch
    Project.send(:include, RedmineA::ProjectPatch)
  end

  unless IssueQuery.included_modules.include? RedmineA::IssueQueryPatch
    IssueQuery.send(:include, RedmineA::IssueQueryPatch)
  end
end

Redmine::Plugin.register :redmine_a do
  name 'Redmine Test Plugin'
  author 'Stefan Rinkes'
  description 'To show IssueQuery-Patch failure'
  version '0.0.0'
end
```

Place this as /usr/src/redmine/plugins/redmine_a/init.rb and try to create a brand new database.

```
# rake db:create
```

rake aborted!

ActiveRecord::NoDatabaseError: Unknown database 'redmine_test'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/mysql2_adapter.rb:26:in `rescue in mysql2_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/mysql2_adapter.rb:12:in `mysql2_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:830:in `checkout_new_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:874:in `try_to_checkout_new_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:814:in `acquire_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:538:in `checkout'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:382:in `connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/retriever.rb:1033:in `retrieve_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/retriever.rb:118:in `retrieve_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/retriever.rb:90:in `connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/model_schema.rb:466:in `load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/attribute_decorators.rb:234:in `load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/attribute_decorators.rb:51:in `load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/model_schema.rb:459:in `block in load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/model_schema.rb:456:in `load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/model_schema.rb:336:in `columns_hash'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/inheritance.rb:78:in `descends_from_active_record?'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/inheritance.rb:84:in `finder_needs_type_condition?'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/core.rb:287:in `relation'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/scoping/default.rb:34:in `unscoped'
/usr/src/redmine/app/models/user.rb:822:in `anonymous'
/usr/src/redmine/app/models/user.rb:816:in `current'
/usr/src/redmine/app/models/query.rb:91:in `groupable'
/usr/src/redmine/app/models/query.rb:31:in `initialize'
/usr/src/redmine/app/models/issue_query.rb:36:in `new'
/usr/src/redmine/app/models/issue_query.rb:36:in `<class:IssueQuery>,'
/usr/src/redmine/app/models/issue_query.rb:20:in `top (required)'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:291:in `require'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:291:in `block in require'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:257:in `load_dependency'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:291:in `require'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:378:in `block in require_or_load'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:37:in `block in load_dependency'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies/interlock.rb:14:in `block in loading'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies/interlock.rb:151:in `exclusive'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies/interlock.rb:13:in `loading'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:37:in `load_interlock'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:356:in `require_or_load'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/dependencies.rb:510:in `load_missing_constant'
Caused by:
Mysql2::Error: Unknown database 'redmine_test'

/usr/local/bundle/gems/mysql2-0.5.3/lib/mysql2/client.rb:90:in `connect'
/usr/local/bundle/gems/mysql2-0.5.3/lib/mysql2/client.rb:90:in `initialize'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/mysql2_adapter.rb:22:in `new'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/mysql2_adapter.rb:22:in `mysql2_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:830:in `new_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:874:in `checkout_new_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:853:in `try_to_checkout_new_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:814:in `acquire_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:538:in `checkout'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:382:in `connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_adapters/abstract/connection_pool.rb:1033:in `retrieve_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_handling.rb:118:in `retrieve_connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/connection_handling.rb:90:in `connection'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/model_schema.rb:466:in `load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/attributes.rb:234:in `load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/attribute_decorators.rb:51:in `load_schema'
/usr/local/bundle/gems/activerecord-5.2.4.1/lib/active_record/model_schema.rb:459:in `block in load_schema'
Removing the plugin will let you create the database and works flawlessly once the database is there.

Related issues:
Related to Redmine - Patch # 33290: Stop DB access when IssueQuery class is d... New

History

#1 - 2021-01-14 15:02 - Ko Nagase

Well, I encountered almost the same issue in our plugin.
(Note that Redmine 4.0-stable branch is no problem.)

#2 - 2021-01-15 02:41 - Jens Krämer

As a workaround catching ActiveRecord::NoDatabaseError in the to_prepare block should do the trick.

#3 - 2021-01-16 03:03 - Ko Nagase

Well, catching ActiveRecord::NoDatabaseError solved the rake db:create issue, but when executing rake db:drop (without rake db:migrate), I encountered the following error on PostgreSQL database.

    rake aborted!
    ActiveRecord::StatementInvalid: PG::UndefinedTable: ERROR: relation "users" does not exist
    LINE 8: WHERE a.attrelid = "users"::regclass
    ^
    : SELECT a.attname, format_type(a.atttypid, a.atttypmod),
             pg_get_expr(d.adbin, d.adrelid), a.attnotnull, a.atttypid, a.atttypmod,
             c.collname, col_description(a.attrelid, a.attnum) AS comment
         FROM pg_attribute a
         LEFT JOIN pg_attrdef d ON a.attrelid = d.adrelid AND a.attnum = d.adnum
         LEFT JOIN pg_type t ON a.atttypid = t.oid
         LEFT JOIN pg_collation c ON a.attcollation = c.oid AND a.attcollation <> t.typcollation
         WHERE a.attrelid = "users"::regclass
         AND a.attnum > 0 AND NOT a.attisdropped
         ORDER BY a.attnum

I confirmed that applying the following redmine core patch solved the both rake db:create and rake db:drop case, but is this acceptable way ?

```ruby
--- a/app/models/query.rb
+++ b/app/models/query.rb
@@ -87,7 +87,9 @@
class TimestampQueryColumn < QueryColumn
   def groupable
     if @groupable
       Redmine::Database.timestamp_to_date(sortable, User.current.time_zone)
-      if ActiveRecord::Base.connection_pool.connected? and ActiveRecord::Base.connection.table_exists?(:users)
+      if ActiveRecord::Base.connection_pool.connected? and ActiveRecord::Base.connection.table_exists?(:users)
+         Redmine::Database.timestamp_to_date(sortable, User.current.time_zone)
+      end
     end
   end
```
#4 - 2021-01-16 05:36 - Kevin Fischer

#33290 is related to this and the patch attached there should solve this problem, too

#5 - 2021-01-24 22:59 - Marius BALTEANU
- Related to Patch #33290: Stop DB access when IssueQuery class is defined added

#6 - 2021-01-24 23:00 - Marius BALTEANU
- Target version set to 4.1.2

Assign this to version:"4.1.2" in order to be review together with #33290. It seems to be the same problem.

#7 - 2021-01-24 23:01 - Marius BALTEANU
- Assignee set to Jean-Philippe Lang

#8 - 2021-03-15 22:24 - Marius BALTEANU
- Target version changed from 4.1.2 to 4.2.0