

Redmine - Defect #32532

SQL to get count does not work correctly when grouping issues using created_on when setting config.time_zone

2019-11-29 08:59 - Mizuki ISHIKAWA

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Issues filter	Estimated time:	0.00 hour
Target version:		Affected version:	
Resolution:			

Description

- config.time_zone = 'Tokyo' # Other than UTC
- User time zone is nil

In the case of the above settings, the count when grouped with created_on may not be displayed correctly.
screenshot.png

created_on of grouping target issues:

```
[Thu, 20 Jul 2006 04:04:21 JST +09:00,  
Thu, 20 Jul 2006 04:07:27 JST +09:00,  
Thu, 14 Nov 2019 16:27:41 JST +09:00,  
Tue, 19 Nov 2019 16:27:41 JST +09:00,  
Sun, 24 Nov 2019 16:27:41 JST +09:00,  
Sun, 24 Nov 2019 16:27:41 JST +09:00,  
Sun, 24 Nov 2019 16:27:41 JST +09:00,  
Tue, 26 Nov 2019 16:27:41 JST +09:00,  
Fri, 29 Nov 2019 16:26:41 JST +09:00,  
Fri, 29 Nov 2019 16:26:41 JST +09:00,  
Fri, 29 Nov 2019 16:26:41 JST +09:00]
```

Expected aggregation results(Date in Tokyo time zone):

```
> Issue.all.open.group_by{|i| i.created_on.to_date}.map{|k, values| [k, values.count]}.to_h  
{Thu, 20 Jul 2006=>2,  
Tue, 19 Nov 2019=>1,  
Tue, 26 Nov 2019=>1,  
Fri, 29 Nov 2019=>3,  
Thu, 14 Nov 2019=>1,  
Sun, 24 Nov 2019=>3}
```

Actual aggregation results(Date in UTC time zone):

```
> query.result_count_by_group  
{Wed, 19 Jul 2006=>2,  
Tue, 19 Nov 2019=>1,  
Tue, 26 Nov 2019=>1,  
Fri, 29 Nov 2019=>3,  
Thu, 14 Nov 2019=>1,  
Sun, 24 Nov 2019=>3}
```

```
# http://www.redmine.org/projects/redmine/repository/entry/trunk/lib/redmine/database.rb#L71
if postgresql?
  if time_zone
    identifier = ActiveSupport::TimeZone.find_tzinfo(time_zone.name).identifier
    "#{column}::timestampz AT TIME ZONE '#{identifier}':::date"
  else
    "#{column}::date"
  end
else
  # ...
end
```

The code above is executed to get the key date for the group.

Instead of returning "#{column}::date" when the user time zone is nil and config.time_zone is set, it should return the date converted to the time zone set in config.time_zone.

This issue is related to #13803.

History

#1 - 2019-11-29 09:09 - Mizuki ISHIKAWA

- File *fix-32532.patch* added

I have attached a patch that fixes the problem.

I'm not very familiar with SQL, so I'd like someone to check if the change is correct.

Files

screenshot.png	206 KB	2019-11-29	Mizuki ISHIKAWA
fix-32532.patch	2.12 KB	2019-11-29	Mizuki ISHIKAWA