

## Redmine - Defect #33941

### Test fails depending on time zone setting

2020-09-01 07:53 - Yuichi HARADA

<b>Status:</b>	New	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Affected version:</b>	
<b>Resolution:</b>			

#### Description

If you set the timezone in config/additional\_environment.rb and test it, any tests may fail.

```
config.time_zone = 'International Date Line West' # UTC-12:00
```

The test will always fail if the date of today on UTC and the date of today on config.time\_zone are different.

```
$ RAILS_ENV=test bundle exec rake db:migrate:reset
```

```
$ RAILS_ENV=test bundle exec rake test
```

```
Run options: --seed 21968
```

```
# Running:
```

```
.....F
```

Failure:

MailerTest#test\_reminders [./test/unit/mailer\_test.rb:694]:

"Bug #3: Error 281 when updating a recipe (5 days late)" not found in "1 issue(s) that are assigned to you are due in the next 42 days::"

```
* eCookbook - Bug #3: Error 281 when updating a recipe (6 days late)
```

View all issues (2 open)

[http://localhost:3000/issues?assigned\\_to\\_id=me&set\\_filter=1&sort=due\\_date%3Aasc](http://localhost:3000/issues?assigned_to_id=me&set_filter=1&sort=due_date%3Aasc)

--

You have received this notification because you have either subscribed to it, or are involved in it.

To change your notification preferences, please click here: <http://hostname/my/account>

"

```
bin/rails test test/unit/mailer_test.rb:687
```

```
.....F
```

Failure:

MailerTest#test\_reminders\_should\_sort\_issues\_by\_due\_date [./test/unit/mailer\_test.rb:823]:

```
<(?-mix:foo \ (1 day late\))> expected but was
```

```
<eCookbook - Bug #18: foo (2 days late)>..
```

```
Expected 0 to be >= 1.
```

```
bin/rails test test/unit/mailer_test.rb:811
```

.....F

Failure:

MailerTest#test\_reminders\_language\_auto [./test/unit/mailer\_test.rb:717]:

"Bug #3: Error 281 when updating a recipe (En retard de 5 jours)" not found in "1 demande(s) qui vous sont assignées arrivent à échéance dans les 42 prochains jours ::

\* eCookbook - Bug #3: Error 281 when updating a recipe (En retard de 6 jours)

Voir toutes les demandes (2 ouvertes)

[http://localhost:3000/issues?assigned\\_to\\_id=me&set\\_filter=1&sort=due\\_date%3Aasc](http://localhost:3000/issues?assigned_to_id=me&set_filter=1&sort=due_date%3Aasc)

--

You have received this notification because you have either subscribed to it, or are involved in it.

To change your notification preferences, please click here: <http://hostname/my/account>

"

bin/rails test test/unit/mailer\_test.rb:708

....F

Failure:

MailerTest#test\_reminder\_should\_include\_issues\_assigned\_to\_groups [./test/unit/mailer\_test.rb:773]:

"Assigned to group (Due in 5 days)" not found in "1 issue(s) that are assigned to you are due in the next 7 days::

\* eCookbook - Bug #15: Assigned to group (Due in 4 days)

View all issues (2 open)

[http://localhost:3000/issues?assigned\\_to\\_id=me&set\\_filter=1&sort=due\\_date%3Aasc](http://localhost:3000/issues?assigned_to_id=me&set_filter=1&sort=due_date%3Aasc)

--

You have received this notification because you have either subscribed to it, or are involved in it.

To change your notification preferences, please click here: <http://hostname/my/account>

"

bin/rails test test/unit/mailer\_test.rb:749

.....F

Failure:

MailerTest#test\_reminders\_for\_users [./test/unit/mailer\_test.rb:746]:

"Bug #3: Error 281 when updating a recipe (5 days late)" not found in "1 issue(s) that are assigned to you are due in the next 42 days::

\* eCookbook - Bug #3: Error 281 when updating a recipe (6 days late)

View all issues (2 open)

[http://localhost:3000/issues?assigned\\_to\\_id=me&set\\_filter=1&sort=due\\_date%3Aasc](http://localhost:3000/issues?assigned_to_id=me&set_filter=1&sort=due_date%3Aasc)

--

You have received this notification because you have either subscribed to it, or are involved in it.

To change your notification preferences, please click here: <http://hostname/my/account>

"

```
bin/rails test test/unit/mailer_test.rb:738
```

.....

Finished in 411.745744s, 12.2090 runs/s, 56.3649 assertions/s.  
5027 runs, 23208 assertions, 5 failures, 0 errors, 7 skips

You have skipped tests. Run with --verbose for details.

\$

## History

### #1 - 2020-09-01 08:02 - Yuichi HARADA

There are two possible causes for the test to fail.

- When using `Date.today`, `Time.now`, `DateTime.now`, the timezone in `config.time_zone` is ignored. You should use `Date.current`, `Time.current`, `DateTime.current`.
- Times of the day are not stored in table columns of type of date. However, in `Query#date_clause(source:/trunk/app/models/query.rb#L1465)`, because the where condition considering the time difference is created for this Date type table column, the SQL execution result is strange.

### #2 - 2020-09-01 08:26 - Yuichi HARADA

- File `fixed-33941.patch` added

Yuichi HARADA wrote:

*There are two possible causes for the test to fail.*

- *When using `Date.today`, `Time.now`, `DateTime.now`, the timezone in `config.time_zone` is ignored. You should use `Date.current`, `Time.current`, `DateTime.current`.*
- *Times of the day are not stored in table columns of type of date. However, in `Query#date_clause(source:/trunk/app/models/query.rb#L1465)`, because the where condition considering the time difference is created for this Date type table column, the SQL execution result is strange.*

I will attach a patch to resolve these.

I've tested in the following time zones to make sure the tests don't fail.

```
config.time_zone = 'UTC' # UTC+-00:00
```

```
config.time_zone = 'Tokyo' # UTC+09:00
```

```
config.time_zone = 'Samoa' # UTC+13:00
```

```
config.time_zone = 'Alaska' # UTC-09:00
```

```
config.time_zone = 'International Date Line West' # UTC-12:00
```

## Files

`fixed-33941.patch`

38.3 KB

2020-09-01

Yuichi HARADA