### Description

Env:
OS: Ubuntu 14.04 LTS
ruby 2.1.2.p95 (2014-05-08 revision 45877) [i686-linux]
rails (4.1.4, 3.2.19)
redmine-2.5.2
svn, version 1.8.9 (r1591380)

Environment:
- Redmine version: 2.5.2.stable
- Ruby version: 2.1.2-p95 (2014-05-08) [i686-linux]
- Rails version: 3.2.19
- Environment: production
- Database adapter: Mysql2

SCM:
- Subversion: 1.8.9
- Filesystem

Redmine plugins:
- no plugin installed

After install mysql, redmine, I try to set DB and find a problem in mysql 5.7.

```
root@lenovo:/usr/local/src/redmine-2.5.2# RAILS_ENV=production rake db:migrate
  Setup: migrating =----------------------------------------------------------
  -- create_table(attachments", {:force=>true})
  rake aborted!
An error has occurred, all later migrations canceled:

Mysql2::Error: All parts of a PRIMARY KEY must be NOT NULL; if you need NULL in a key, use UNIQUE instead: CREATE TABLE 
`attachments` (`id` int(11) DEFAULT NULL auto_increment PRIMARY KEY, `container_id` int(11) DEFAULT 0 NOT NULL, 
`container_type` varchar(30) DEFAULT " NOT NULL, `filename` varchar(255) DEFAULT " NOT NULL, `disk_filename` varchar255) 
DEFAULT " NOT NULL, `filesize` int(11) DEFAULT 0 NOT NULL, `content_type` varchar(40) DEFAULT " NOT NULL, `downloads` int(11) DEFAULT 0 NOT NULL, `author_id` int(11) DEFAULT 0 NOT NULL, `created_on` 
datetime) ENGINE=InnoDB
```

Tasks: TOP => db:migrate
(See full trace by running task with --trace)

But, redmine is compatible mysql-5.6.19 and work perfectly.

Sam Sheen

### Related issues:
- Related to Redmine - Defect # 19344: MySQL 5.6: IssueNestedSetConcurrencyTest... New
- Duplicated by Redmine - Defect # 28414: Does Redmine compatible with MySQL 5.... Closed
Workaround for timestamps rounding issues with Rails4.2 and mysql5.7 that may kill user session after password is changed (#17460).

Revision 14077 - 2015-03-14 07:31 - Toshi MARUYAMA

add MariaDB 10.0 environment to travis (#17460, #19344)

Revision 14085 - 2015-03-14 11:16 - Toshi MARUYAMA

add MySQL 5.6 and 5.7 environments to travis (#17460, #19344)

Revision 14128 - 2015-03-17 00:20 - Toshi MARUYAMA

add MariaDB 5.5 environment to travis (#17460, #19344, #19395)

This is caused by a change of MySQL 5.7.3-m13. Please see the following URL for details.

mysql - Creating tables and problems with primary key in Rails - Stack Overflow

The workaround is included in Rails 4.1. But current Redmine is based on Rails 3.2, so it seems that we have to rely on monkey patch for now.

Don't know what to do with this one, guess the patch can't be avoided?

Probably this issue will be resolved in Redmine 3.0.0 because it is based on Rails 4.1.

Same problem here using redmine-2.6.0.

    # mysqld --version
    mysqld Ver 5.7.5-m15 for linux-glibc2.5 on x86_64 (MySQL Community Server (GPL))
    # bundle exec rails --version
#5 - 2014-11-03 21:47 - Enderson Maia

If you're gonna wait for Rails 4 in Redmine 3, maybe an update to the docs to inform it's not compatible with this specific version of MySQL.

#6 - 2014-11-11 10:15 - Jean-Philippe Lang

- Target version set to 3.0.0

Note about this incompatibility added to [[RedmineInstall]].

#7 - 2015-02-15 10:12 - Jean-Philippe Lang

- Tracker changed from Defect to Feature
- Subject changed from Redmine 2.5.2 incompatible with mysql-5.7.3-m13 to MySQL 5.7 support

There are still some issues with mysql 5.7 and Rails 4.2:

1. it does not pass the issue concurrency test (dead locks), although the 5.7 changelog does not mention any changes to the lock mechanism
2. timestamps rouding issues after reload that trigger failures in AccountTest#test_user_with_must_change_passwd_should_be_able_to_change_its_password. Here is an example that shows a timestamp returning a different value after reload:

```ruby
irb(main):044:0> u=User.first
irb(main):045:0> u.created_on = "2015-02-15 09:38:59.767393"
=> "2015-02-15 09:38:59.767393"
irb(main):046:0> u.save
=> true
irb(main):047:0> u.created_on
=> Sun, 15 Feb 2015 09:38:59 UTC +00:00
irb(main):048:0> u.reload
irb(main):049:0> u.created_on
=> Sun, 15 Feb 2015 09:39:00 UTC +00:00
```

A workaround was committed in r14011 for 2.

#8 - 2015-02-18 13:15 - Jean-Philippe Lang

- Target version changed from 3.0.0 to Candidate for next major release

#9 - 2015-03-11 13:02 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

```
1. it does not pass the issue concurrency test (dead locks), although the 5.7 changelog does not mention
```
InnoDB uses a new, faster algorithm to detect deadlocks.

#10 - 2015-03-11 13:04 - Toshi MARUYAMA
- Related to Defect #19344: MySQL 5.6: IssueNestedSetConcurrencyTest#test_concurrency : always fails added

#11 - 2015-03-11 13:07 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

1. it does not pass the issue concurrency test (dead locks)

#19344 says MySQL 5.6 too.

#12 - 2015-03-16 21:20 - Jean-Philippe Lang

Toshi MARUYAMA wrote:

#19344 says MySQL 5.6 too.

Indeed, the CI server runs MySQL 5.1.

I had a deeper look at the deadlocks issue and it seems to work when doing SELECT * ... FROM UPDATE instead of SELECT id ... FOR UPDATE. Here is a patch for current trunk tested with mysql5.7, the concurrency test passes for me. Could you give it a try?

#13 - 2015-03-16 21:20 - Jean-Philippe Lang
- File mysql5.7_deadlocks_fix.patch added

#14 - 2015-03-17 13:45 - Toshi MARUYAMA

On my CentOS7 mariadb-5.5.41-2.el7_0.x86_64:

clean r14128:

$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 12276

# Running:

F.

Finished in 19.053029s, 0.1050 runs/s, 0.4199 assertions/s.

1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:
Expected "Mysql2::Error: Deadlock found when trying to get lock;"
try restarting transaction:

```
SELECT `issues`.`id` FROM `issues` WHERE (root_id IN (SELECT root_id FROM issues WHERE id IN (319,316)))
ORDER BY `issues`.`id` ASC FOR UPDATE" to be nil.
```

2 runs, 8 assertions, 1 failures, 0 errors, 0 skips

---

r14128 with note-13 patch:

```
$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 50424

# Running:

F.

Finished in 5.455071s, 0.3666 runs/s, 1.2832 assertions/s.

1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:
Expected "Mysql2::Error: Deadlock found when trying to get lock;
try restarting transaction:
SELECT `issues`.* FROM `issues` WHERE `issues`.`root_id` = 432
ORDER BY `issues`.`id` ASC FOR UPDATE" to be nil.

2 runs, 7 assertions, 1 failures, 0 errors, 0 skips
```

---

#15 - 2015-03-17 17:37 - Toshi MARUYAMA

This change passes test half times, but fails half times on my MariaDB 5.5.

```
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
--- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -158,7 +158,8 @@ module Redmine
     self.class.reorder(:id).where(:root_id => sets_to_lock).lock(lock).ids
 else
     sets_to_lock = [id, parent_id].compact
-    self.class.reorder(:id).where("root_id IN (SELECT root_id FROM #\{self.class.table_name\} WHERE id IN (?)")*, sets_to_lock).lock.ids
+    root_ids = self.class.where(:id => sets_to_lock).select(:root_id).to_a
+    self.class.where(:root_id => root_ids).lock.ids
 end
 end
```

---

$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 63128

---

2020-04-05
# Running:
.. 

Finished in 25.875842s, 0.0773 runs/s, 0.3865 assertions/s.

2 runs, 10 assertions, 0 failures, 0 errors, 0 skips

$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 40861

# Running:

FF

Finished in 6.222392s, 0.3214 runs/s, 0.6428 assertions/s.

1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:
Expected "Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction:
UPDATE `issues` SET lft = CASE WHEN lft > 9 THEN lft - 2 ELSE lft END, rgt = CASE WHEN rgt > 9 THEN rgt - 2 ELSE rgt END WHERE `issues`.`root_id` = 4249 AND (lft > 9 OR rgt > 9)" to be nil.

2) Failure:
IssueNestedSetConcurrencyTest#test_concurrent_subtasks_creation [test/unit/issue_nested_set_concurrency_test.rb:61]:
Expected "Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction:
UPDATE `issues` SET lft = CASE WHEN lft >= 18 THEN lft + 2 ELSE lft END, rgt = CASE WHEN rgt >= 18 THEN rgt + 2 ELSE rgt END WHERE `issues`.`root_id` = 4263 AND (lft >= 18 OR rgt >= 18)" to be nil.

2 runs, 4 assertions, 2 failures, 0 errors, 0 skips

#16 - 2015-03-17 18:53 - Jean-Philippe Lang
Toshi, your patch does not do what it's supposed to.

You may want to write:
```ruby
root_ids = self.class.where(:id => sets_to_lock).pluck(:root_id)
```

instead of:
```ruby
root_ids = self.class.where(:id => sets_to_lock).select(:root_id).to_a
```

which returns records without their ids. The lock after that does nothing:
```sql
SELECT `issues`.* FROM `issues` WHERE `issues`.$root_id IS NULL FOR UPDATE
```

#17 - 2015-03-17 19:07 - Jean-Philippe Lang
I've isolated the log for a thread that triggers a dead lock. It ends with:

```
[52206168] BEGIN
[52206168] SELECT 'issues'.* FROM 'issues' WHERE 'issues'.id = 781 LIMIT 1
[52206168] SELECT 'issues'.id FROM 'issues' WHERE 'issues'.root_id = 778 ORDER BY 'issues'.id ASC FOR UPDATE
[52206168] ROLLBACK
[52206168] ERROR: Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction:
SELECT 'issues'.id FROM 'issues' WHERE 'issues'.root_id = 778 ORDER BY 'issues'.id ASC FOR UPDATE
```

As we can see, the thread starts a transaction, has no lock yet and gets a dead lock error on the first lock. Anyone knows what would explain that?

### #18 - 2015-03-17 20:00 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

```
Toshi, your patch does not do what it's supposed to.

You may want to write:

```ruby
root_ids = self.class.where(id => sets_to_lock).pluck(root_id)
```

instead of:

```ruby
root_ids = self.class.where(id => sets_to_lock).select(root_id).to_a
```

which returns records without their ids. The lock after that does nothing:

```ruby
SELECT 'issues'.id FROM 'issues' WHERE 'issues'.root_id IS NULL FOR UPDATE
```

This changes fails 3/4 times.

```
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
--- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -158,7 +158,8 @@ module Redmine
 self.class.reorder(id).where(root_id => sets_to_lock).lock(ids
   else
     sets_to_lock = [id, parent_id].compact
-    self.class.reorder(id).where("root_id IN (SELECT root_id FROM #{self.class.table_name} WHERE id IN (?)") , sets_to_lock).lock(ids
+    root_ids = self.class.where(id => sets_to_lock).pluck(root_id).compact.uniq
+    self.class.where(root_id => root_ids).lock.ids
   end
 end
```

```
$ ruby test/unit/issue_nested_set_concurrency_test.rb
Run options: --seed 1553

# Running:
```

F.

2020-04-05
1) Failure:
IssueNestedSetConcurrencyTest#test_concurrency [test/unit/issue_nested_set_concurrency_test.rb:45]:

Expected "Mysql2::Error: Deadlock found when trying to get lock; try restarting transaction: SELECT `issues`.`id` FROM `issues` WHERE `issues`.`root_id` = 7049 FOR UPDATE" to be nil.

2 runs, 9 assertions, 1 failures, 0 errors, 0 skips

#19 - 2015-03-18 05:10 - Toshi MARUYAMA
"SET SESSION TRANSACTION ISOLATION LEVEL SERIALIZABLE;" reduces failure times on my MariaDB 5.5.

#20 - 2015-03-18 06:29 - Toshi MARUYAMA
This is code from source:tags/2.6.3/lib/plugins/awesome_nested_set/lib/awesome_nested_set/model/transactable.rb .
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
--- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -148,7 +148,29 @@
@@
module Redmine
new_record? || !is_or_is_ancestor_of?(issue)
end
+
+  def in_tenacious_transaction(&block)
+    retry_count = 0
+    begin
+      transaction(&block)
+      rescue ActiveRecord::StatementInvalid => error
+        raise unless error.message =~ /Deadlock found when trying to get lock/  
+        raise unless retry_count < 10
+        retry_count += 1
+        logger.info "Deadlock detected on retry #{retry_count}, restarting transaction"
+        sleep(rand(retry_count)*0.1)  # Aloha protocol
+      retry
+    end
+  end
+
+  def lock_nested_set
+    if self.class.connection.adapter_name =~ /mysql/i
+      in_tenacious_transaction { lock_nested_set_in_tenacious_transaction }
+    else
+      lock_nested_set_in_tenacious_transaction
+    end
+  end
+
+  def lock_nested_set_in_tenacious_transaction
+    if self.class.connection.adapter_name =~ /sqlserver/i
+      lock = "WITH (ROWLOCK HOLDLOCK UPDLOCK)"
+    else
+      lock = "WITH (ROWLOCK)
+    end
+    begin
+      transaction { lock_nested_set(lock) }
+    rescue ActiveRecord::StatementInvalid => error
+      raise unless error.message =~ /Deadlock found when trying to get lock/  
+      raise unless retry_count < 10
+      retry_count += 1
+      logger.info "Deadlock detected on retry #{retry_count}, restarting transaction"
+      sleep(rand(retry_count)*0.1)  # Aloha protocol
+      retry
+    end
+  end

2020-04-05
Note-20 is wrong because it uses nested transaction and parent transaction does not use lock. This is fix.

```ruby
diff --git a/lib/redmine/nested_set/issue_nested_set.rb b/lib/redmine/nested_set/issue_nested_set.rb
--- a/lib/redmine/nested_set/issue_nested_set.rb
+++ b/lib/redmine/nested_set/issue_nested_set.rb
@@ -148,7 +148,29 @@ module Redmine
   new_record? || !is_or_is_ancestor_of?(issue)
 end

+ def get_lock_mysql(&block)
+   retry_count = 0
+   begin
+     yield
+     rescue ActiveRecord::StatementInvalid => error
+       raise unless error.message =~ /Deadlock found when trying to get lock/  
+       raise unless retry_count < 10
+       retry_count += 1
+       logger.info "Deadlock detected on retry #{retry_count}, restarting transaction"
+       sleep(rand(retry_count)*0.1) # Aloha protocol
+       retry
+   end
+ end

+ def lock_nested_set
+   if self.class.connection.adapter_name =~ /mysql/i
+     get_lock_mysql { get_lock }
+   else
+     get_lock
+   end
+ end
+
+ def get_lock
+   if self.class.connection.adapter_name =~ /sqlserver/i
+     lock = "WITH (ROWLOCK HOLDLOCK UPDLOCK)"
+     # Custom lock for SQLServer
+   end
+ end
```

Toshi, the idea of the implementation of nested sets in 3.0.0 is to start the transaction by locking all the rows that might be updated or used to compute shifts in the transaction, in order to prevent deadlocks and inconsistencies. I won't commit that workaround until I figure out why it doesn't work as I expect (note-17) in recent versions of MySQL.
I think MySQL uses **Gap Locks**, so we cannot avoid deadlock.


I tried **READ COMMITTED** on MariaDB 5.5, but deadlock raised. I don't know the reason.

**#24 - 2017-02-01 18:28 - Dave Martin**

Do current versions of Redmine still not support MySQL 5.7?

**#25 - 2017-03-21 16:38 - Toshi MARUYAMA**

#23318#note-18 patch reduces test failure times from about 100% to 50% on my CentOS7 mariadb-5.5.52-1.el7.x86_64.

**#26 - 2017-04-21 18:11 - Stephane Evr**

Latest versions of Ubuntu server only provide the 5.7 package, version 5.5 is really difficult to install on it:

https://askubuntu.com/questions/763240/is-it-possible-to-install-mysql-5-5-or-5-6-on-ubuntu-16-04

**#27 - 2017-04-23 15:45 - Stephane Evr**

Here are some logs from MySQL 5.7:

```sql
mysql> select * FROM INNODB_LOCKS \G;
*************************** 1. row ***************************
   lock_id: 56163:265:12:54
lock_trx_id: 56163
   lock_mode: X
   lock_type: RECORD
lock_table: `redmine_test`.`issues`
lock_index: index_issues_on_root_id_and_lft_and_rgt
lock_space: 265
lock_page: 12
lock_rec: 54
lock_data: 653, 1, 20, 653
*************************** 2. row ***************************
   lock_id: 56159:265:12:54
lock_trx_id: 56159
   lock_mode: X
   lock_type: RECORD
lock_table: `redmine_test`.`issues`
lock_index: index_issues_on_root_id_and_lft_and_rgt
lock_space: 265
lock_page: 12
lock_rec: 54
lock_data: 653, 1, 20, 653
2 rows in set, 1 warning (0.00 sec)
```

mysql> SHOW ENGINE INNODB STATUS \G;
------------------------
2020-04-05 10/15
LATEST DETECTED DEADLOCK

2017-04-23 14:38:12 0x7f308c273700

*** (1) TRANSACTION:
TRANSACTION 56161, ACTIVE 0 sec starting index read
mysql tables in use 2, locked 1
LOCK WAIT 2 lock struct(s), heap size 1136, 1 row lock(s)
MySQL thread id 9, OS thread handle 139846486136576, query id 1081 localhost root Sending data
SELECT `issues`.`id` FROM `issues` WHERE (root_id IN (SELECT root_id FROM issues WHERE id IN (658,655)))  ORDER BY `issues`.`id` ASC FOR UPDATE

*** (1) WAITING FOR THIS LOCK TO BE GRANTED:
RECORD LOCKS space id 265 page no 12 n bits 160 index index_issues_on_root_id_and_lft_and_rgt of table `redmine_test`.`issues` trx id 56161 lock_mode X waiting

*** (2) TRANSACTION:
TRANSACTION 56159, ACTIVE 0 sec updating or deleting
mysql tables in use 1, locked 1
5 lock struct(s), heap size 1136, 60 row lock(s), undo log entries 1
MySQL thread id 7, OS thread handle 139846486537984, query id 1134 localhost root updating
UPDATE `issues` SET lft = CASE WHEN lft > 5 THEN lft - 2 ELSE lft END, rgt = CASE WHEN rgt > 5 THEN rgt - 2 ELSE rgt END WHERE `issues`.`root_id` = 653 AND (lft > 5 OR rgt > 5)

*** (2) HOLDS THE LOCK(S):
RECORD LOCKS space id 265 page no 12 n bits 160 index index_issues_on_root_id_and_lft_and_rgt of table `redmine_test`.`issues` trx id 56159 lock_mode X

*** (2) WAITING FOR THIS LOCK TO BE GRANTED:
RECORD LOCKS space id 265 page no 12 n bits 160 index index_issues_on_root_id_and_lft_and_rgt of table `redmine_test`.`issues` trx id 56159 lock_mode X locks gap before rec insert intention waiting

*** WE ROLL BACK TRANSACTION (1)

2020-04-05

11/15
Should we put the index on `issues` => [:root_id, :lft, :rgt] as unique? I think this would play a role in the number of records being locked when we do something such as:

```
In remove_from_nested_set:
```

```
In add_to_nested_set:
  self.class.where(:root_id => root_id).where("lft >= ? OR rgt >= ?", lft, lft).update_all(...)
```

Or is a reorder needed before the update_all clause?

Am about to make the move to Ubuntu 16.04. Can I install Redmine 3.3 and stick with MySQL 5.7 now?

For what it is worth, we have been using an Ubuntu 16.04 + MariaDB 10.0.x setup for over six months now without any obvious issues.

- web server: Ubuntu 16.04, nginx/Passenger, mysql-client 5.7.x
- database server: MariaDB 10.0.x

@Stephane Evr - Hi, the index on `issues` => [:root_id, :lft, :rgt] should be definitely unique.

To avoid duplicate entries during shifts I added an additional reorder statement:

```
remove_from_nested_set
  .reorder('lft desc')
add_to_nested_set
  .reorder('lft asc')
```

but it didn’t help anyway, I think it’s because shifts are overlapping, especially during creating & deleting records at the same time.
unfortunately awesome_nested_set has the same issue

locking all issues instead of subtree works correctly (no deadlocks), but it should be definitely avoided for performance reasons

self.class.reorder(:id).lock

log

# Running:

Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Deadlock detected on update, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863660
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #2 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107872360
Deadlock detected on update, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on update, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on update, restarting transaction retry #1 thread: 107872360
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
Deadlock detected on getting lock, restarting transaction retry #1 thread: 107863880
..  

Finished in 14.603111s, 0.1370 runs/s, 0.6848 assertions/s.

2 runs, 10 assertions, 0 failures, 0 errors, 0 skips

#32 - 2018-06-08 10:39 - yossi edri

Hi,

what is the highest tested version of MySql that is supported in Redmine 3.x - 4.x

thanks

#33 - 2018-06-19 16:38 - م هلا‌تجح

yossi edri wrote:

Hi,

what is the highest tested version of MySql that is supported in Redmine 3.x - 4.x

2020-04-05 13/15
Salam

redmine 3.2 work by last version of mysql but redmine 3.3 and higher not work well with mysql 5.5 or higher

#34 - 2018-08-25 18:14 - Alexandr Kirilov

Just installed Redmine in following ports for FreeBSD. There are included mysql56, and the lowest version available from ports is mysql55. I've been trying Redmine with mysql80. Seems working for the case of mysql. But I got this issue - http://www.redmine.org/boards/2/topics/55693.

#35 - 2018-10-16 18:12 - Thomas Löber

Does it make sense to retry the transaction inside the Issue class?

In app/models/issue.rb:
```ruby
def self.transaction(options={}, &block)
  retry_count = 0
  begin
    super
  rescue ActiveRecord::StatementInvalid => error
    raise if connection.adapter_name !~ /mysql/i
    raise if error.message !~ /Deadlock found when trying to get lock/ 
    raise if retry_count == 10
    retry_count += 1
    wait_ms = rand(retry_count * 100)
    if logger
      logger.info("Deadlock found when saving #{self}: \
      "Waiting for #{wait_ms} ms before restarting the transaction (retry #{retry_count})")
    end
    sleep(wait_ms / 1000.0)
    retry
  end
end
```

#36 - 2019-01-08 06:37 - Marius BALTEANU

- Duplicated by Defect #28414: Does Redmine compatible with MySQL 5.7 or not ? added

#37 - 2019-01-08 07:23 - Marius BALTEANU

Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to close this issue.

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?
Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to close this issue.

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?

Loose tangent: Does the same also apply to MariaDB? FWIW, I've run Redmine on MariaDB 10.0 for years without (apparent) issue, hoping to upgrade to a newer MariaDB release in the near future.

Deoren Moor wrote:

Even if the problem with deadlocks still exists on MySQL 5.7, I think that it is safe to say that Redmine 4.0 officially supports MySQL 5.7 and to close this issue.

CI server run the tests on MySQL 5.7 and the install documentation has been updated.

What do you think?

Loose tangent: Does the same also apply to MariaDB? FWIW, I've run Redmine on MariaDB 10.0 for years without (apparent) issue, hoping to upgrade to a newer MariaDB release in the near future.

No, it applies only to MySQL 5.7. MariaDB is not supported (or at least officially) and an user reported some failing tests (please see #30367).

Files

<table>
<thead>
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<td>issue_nested_set.rb.patch</td>
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