

## Redmine - Patch #19742

### RedmineInstall: MySQL: collation\_database

2015-04-29 22:32 - @ go2null

<b>Status:</b> Closed	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b> Documentation	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b>	
<b>Description</b>	
<p>Currently, the code sample creates a database with collation_database=utf8_general_ci. This potentially creates issues<sup>1</sup> when sorting some unicode languages. A better approach would be to specify the collation.</p> <ul style="list-style-type: none"><li>- CREATE DATABASE redmine CHARACTER SET utf8;</li><li>+ CREATE DATABASE redmine CHARACTER SET utf8 COLLATE utf8_unicode_ci;</li></ul>	
[1] <a href="http://stackoverflow.com/questions/766809/whats-the-difference-between-utf8-general-ci-and-utf8-unicode-ci">http://stackoverflow.com/questions/766809/whats-the-difference-between-utf8-general-ci-and-utf8-unicode-ci</a>	
<b>Related issues:</b>	
Related to Redmine - Defect # 18866: MySQL: disappear after 4-Byte UTF-8	<b>New</b>
Related to Redmine - Defect # 20143: Mailhandler cannot handle 4-byte characters	<b>New</b>
Related to Redmine - Defect # 21398: Mysql: 500 server error when submitting ...	<b>New</b>
Related to Redmine - Feature # 31921: Changes to properly support 4 byte char...	<b>Closed</b>

## History

### #1 - 2015-05-03 02:01 - Toshi MARUYAMA

- Related to Defect #18866: MySQL: disappear after 4-Byte UTF-8 added

### #2 - 2015-05-03 02:04 - Toshi MARUYAMA

- Subject changed from RedmineInstall: Step 2 - implement a best practice for MySQL to RedmineInstall: MySQL: collation\_database

### #3 - 2015-05-03 02:17 - Toshi MARUYAMA

I don't prefer defining utf8\_general\_ci or utf8\_unicode\_ci because many **Japanese** web site recommends **utf8\_general\_ci** because of unacceptable matching HIRAGANA (ひらがな) and KATAKANA (カタカナ).

[MySQL 5.5.3](#) supports **utf8mb4\_unicode\_ci** and **utf8mb4\_general\_ci** (#18866).

### #4 - 2015-06-22 05:48 - Toshi MARUYAMA

- Related to Defect #10772: 4-byte utf-8 characters added

### #5 - 2015-06-22 05:49 - Toshi MARUYAMA

- Related to deleted (Defect #18866: MySQL: disappear after 4-Byte UTF-8)

### #6 - 2015-06-22 05:54 - Toshi MARUYAMA

- Related to deleted (Defect #10772: 4-byte utf-8 characters)

### #7 - 2015-06-22 05:55 - Toshi MARUYAMA

- Related to Defect #18866: MySQL: disappear after 4-Byte UTF-8 added

### #8 - 2015-06-22 05:55 - Toshi MARUYAMA

- Related to Defect #20143: Mailhandler cannot handle 4-byte characters added

**#9 - 2015-10-28 19:22 - @ go2null**

How about the following change:

## FROM

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### MySQL

```
CREATE DATABASE redmine CHARACTER SET utf8;  
CREATE USER 'redmine'@'localhost' IDENTIFIED BY 'my_password';  
GRANT ALL PRIVILEGES ON redmine.* TO 'redmine'@'localhost';
```

For versions of MySQL prior to 5.0.2 - skip the 'create user' step and instead:

```
GRANT ALL PRIVILEGES ON redmine.* TO 'redmine'@'localhost' IDENTIFIED BY 'my_password';
```

## TO

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### MySQL

MySQL v5.5.3 and later

```
CREATE DATABASE redmine CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;  
CREATE USER 'redmine'@'localhost' IDENTIFIED BY 'my_password';  
GRANT ALL PRIVILEGES ON redmine.* TO 'redmine'@'localhost';
```

MySQL v5.0.2 and later

```
CREATE DATABASE redmine CHARACTER SET utf8 COLLATE utf8_unicode_ci;  
CREATE USER 'redmine'@'localhost' IDENTIFIED BY 'my_password';  
GRANT ALL PRIVILEGES ON redmine.* TO 'redmine'@'localhost';
```

MySQL v5.0.1 and earlier

```
CREATE DATABASE redmine CHARACTER SET utf8 COLLATE utf8_unicode_ci;  
GRANT ALL PRIVILEGES ON redmine.* TO 'redmine'@'localhost' IDENTIFIED BY 'my_password';
```

## OR

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Add the following recommendation:

```
| It is recommended to use CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci for MySQL v5.5.3 and later, and CHARACTER SET utf8  
| COLLATE utf8_unicode_ci for earlier versions.
```

**#10 - 2015-12-14 11:45 - Toshi MARUYAMA**

- Related to Defect #21398: Mysql: 500 server error when submitting 4 bytes utf8 (to be saved in the 'notes' field) added

**#11 - 2019-08-17 18:20 - Marius BALTEANU**

- Status changed from New to Closed

[[RedmineInstall]] was updated in the mean time.

**#12 - 2019-08-17 18:20 - Marius BALTEANU**

- Related to Feature #31921: Changes to properly support 4 byte characters (emoji) when database is MySQL added

