

Redmine - Feature #29513

Redmine usability on Percona XtraDB cluster

2018-09-06 17:11 - Richard Pijnenburg

| | | | |
|---|----------|------------------------|-----------|
| Status: | New | Start date: | |
| Priority: | Normal | Due date: | |
| Assignee: | | % Done: | 0% |
| Category: | Database | Estimated time: | 0.00 hour |
| Target version: | | | |
| Resolution: | | | |
| Description | | | |
| Hi, | | | |
| At my work we run Percona XtraDB. To make Redmine work on it, it will require several changes to the database layout. | | | |
| 1. Tables that require a 'PRIMARY KEY': | | | |
| changeset_parents changesets_issues custom_fields_projects custom_fields_roles custom_fields_trackers groups_users plugin_schema_info projects_trackers queries_roles roles_managed_roles schema_migrations | | | |
| 2. Tables that need to be converted from MyISAM to InnoDB: | | | |
| plugin_schema_info | | | |
| I'm guessing that these changes will have to be implemented on the new install side as well a DB migration step has to be created? | | | |

History

#1 - 2018-09-06 20:30 - Pavel Rosický

interesting, have you managed to run redmine on galera with these changes?

here's a documentation about why are primary keys needed

<http://galeracluster.com/documentation-webpages/limitations.html#tables-without-primary-keys>

not sure if it should be part of the migration step. Btw. Rails 4 used to have a problem with efficient preloading these tables without a primary key, but it was fixed in Rails 5. I don't know about any other use case except replication where this could be useful. Maybe a rake task would be a better choice?

2/ plugin_schema_info table isn't available in the standard redmine installation, right?

#2 - 2018-09-07 13:07 - Richard Pijnenburg

Hi Pavel,

I haven't made the modifications yet to test it.

I wanted to make sure this was made visible to create some idea's.

I'm not sure about the table 'plugin_schema_info' where it came from but I can find out (It could be part of a plugin we have installed)

A rake task could work yeah

#3 - 2019-06-11 13:24 - Robert E2

We got the same issue of missing primary keys running MySQL8 with group replication.

Back at the time when we migrated, we thought adding a UNIQUE-KEY constraint will solve the issue:

```
mysql> show create table changeset_parents
-> ;
```

```
-----+-----+
| Table          | Create Table
-----+-----+
| changeset_parents | CREATE TABLE `changeset_parents` (
  `changeset_id` int(11) NOT NULL,
  `parent_id` int(11) NOT NULL,
  KEY `changeset_parents_changeset_ids` (`changeset_id`),
  KEY `changeset_parents_parent_ids` (`parent_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8 |
```

```
1 row in set (0,00 sec)
```

```
mysql> ALTER TABLE changeset_parents ADD CONSTRAINT UNIQUE(changeset_id, parent_id);
ERROR 1062 (23000): Duplicate entry '89630-89615' for key 'changeset_id'
mysql> SELECT * FROM changeset_parents GROUP BY changeset_id, parent_id HAVING COUNT(*) > 1;
```

```
-----+-----+
| changeset_id | parent_id |
-----+-----+
|      89630  |     89615 |
-----+-----+
1 row in set (0,05 sec)
```

```
mysql> DELETE FROM changeset_parents WHERE changeset_id=89630 AND parent_id=89615;
Query OK, 2 rows affected (0,07 sec)
```

```
mysql> INSERT INTO changeset_parents VALUES (89630, 89615);
Query OK, 1 row affected (0,00 sec)
```

```
mysql> ALTER TABLE changeset_parents ADD CONSTRAINT UNIQUE(changeset_id, parent_id);
Query OK, 0 rows affected (0,40 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Unfortunately not every repository obeys to this rule, so we now got stuck with one Git repository which is not updated within Redmine.