Mechanism to batch update slave databases

Posted by djdesjardins - 2012/03/07 18:32

Use case: I've applied an update to the Master that changed the DB structure. I want to apply those changes to all the effected slave sites in one step without having to access individual slave sites.

Requirements (interface details are for example clarity):
- I analyze the db changes and develop the necessary sql to change a single slave site's DB structure. (backup data, change table, restore/transform data, etc)
- Put specific key-word place holders in the sql for things like table prefix
- Open Tools-Database Update tab in JMS component on Master
- Select slave sites to apply changes to
- Paste sql into interface or point to local/remote file containing sql
- Run the scripts against all selected DBs
- Provide detailed success/failure/logging feedback

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Re: Mechanism to batch update slave databases

Posted by edwin2win - 2012/03/07 19:12

OK, I have noticed that as a potential requirement for the future.

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Re: Mechanism to batch update slave databases

Posted by djdesjardins - 2012/07/17 17:29

Just curious if this made it to your road map. I still have issues with database change propagation, so looking for some automation. Will open a new thread for an issue I "think" I am having.

I am patient though. :)

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Re: Mechanism to batch update slave databases

Posted by edwin2win - 2012/07/19 15:54

For your information, in JMS 1.3.x, a new "maintenance" menu is available and allow checking the DB and apply the fixes.

The idea of this new "maintenance" menu is to perform DB verification and compare DB datamodel schema with an expected version.

It extends the joomla 2.5 "extrension manager" / database / fix API with plenty of new things.

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Re: Mechanism to batch update slave databases
Posted by djdesjardins - 2012/07/20 02:41

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sweet

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Re: Mechanism to batch update slave databases
Posted by djdesjardins - 2012/07/20 23:29

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Follow-up for some detail. I understand that you are still working on 1.3 and probably do not want to commit to specific functionality prior to release, but will ask for some guidance anyway.

Based on your explanation it will compare and "sync" database schemas. Considering the ramification, I don't expect it to compare data. This causes some issue when the data changes and is used for compatibility checking. Example would be version numbers etc.

This may be way out there, but can you capture and log the non-read SQL and dump to file for us to analyze during our upgrade testing? Currently I export the database before and after a series of upgrades in my test environment to ensure I don't have any significant issues.

This would nicely round out your new maintenance menu I would think.

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Re: Mechanism to batch update slave databases
Posted by edwin2win - 2012/07/22 08:38

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This is already included in JMS 1.3.

It does not compare the current DBs tables but compare with the SQL files scripts declared in the manifest file.
When you decide to check the SQL script with the current website, it reports several things
- Success rules
- Errors
- Unchecked rules

Errors and uncheckd rules can be captured and included into a "free sql" field (text area) that you can modify for the execution.

The new functionality is also able to partially checking the data content such as "insert into", "replace into"
Currently, only the "update" statement are frequently "unchecked"

I hope to release a beta version before the end of this month (july)

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