

Database Manager Pro v1.0

User's Manual

Feb/2015

ASKIVE in Japan

Links

Question2Answer:	http://www.question2answer.org/
Question2Answer Translating:	http://www.question2answer.org/translate.php
Database Manager Pro:	http://www.question2answer.org/qa/40782
Notification Pro:	http://www.question2answer.org/qa/25217
DataTables (MIT):	http://www.datatables.net/
DateTimePicker (MIT):	http://xdsoft.net/jqplugins/datettimepicker/
learnModal (MIT/GPL):	http://leanmodal.finelysliced.com.au/
ASKIVE:	http://askive.cmsbox.jp

Terms

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1. Introduction

Thank you for your interest to our product.

DATABASE MANAGER PRO (Abbreviation: **DMP**) is flexible and powerful Question2Answer (Abbreviation: **Q2A**) plugin for maintaining database of Q2A. If you installed this plugin, maintenance work of your database will be greatly reduced. Plugin is made in accordance with the plugin making manner of Q2A. Therefore, you can upgrade Q2A in comfort. The convenience of all the people related to Q2A improves, and we hope Q2A system is recognized from people in the world.

Strict observance

This plugin isn't Q2A official product. Because other Q2A users are annoyed very much, you never post question and inquiry about this plugin to Q2A official site. Please post question and inquiry to lower site by all means.

ASKIVE: <http://askive.cmsbox.jp>

Disclaimers

The performance of this plugin comes under big influence of user count, user activity and server spec of your site. Therefore, we don't accept objection about performance and general technical question to have nothing to do with this plugin directly except program bug. In addition, this plugin is not a thing guaranteeing the movement in every environment. If you install third party theme and plugin and customize Q2A, plugin may not move definitely. Particularly, this plugin does not tested in WORDPRESS integration in present. And, it may be necessary to hack program of this plugin when override function collides with other theme and plugin. This is not avoided in structure of Q2A. Anyway, please do not forget this plugin was tested only in standard installation state of Q2A. If plugin don't work well, you have to use ASKIVE tech support service (Payment is necessary).

In particular, this plugin is very powerful. Therefore, if you used incorrectly, your site might get fatal damage. I recommend strongly that you adopt in production server after testing thoroughly in the safe place such as local server. Unfortunately, we do not compensate for any damage that you got by this plugin.

2. Version history

V1.0: Feb/2015

- First release

3. Installation

3.1 Requirement

- ✓ Web server: Apache, NginX, etc (Q2A works Environment)
- ✓ PHP: 5.x (Q2A works Environment)
- ✓ MySQL: 5.x (Q2A works Environment)
- ✓ **Q2A V1.6 later**
- ✓ "crontab(CRON)" is enable with your server

3.2 Install

1. Unzip archive any local folder.
2. Upload "db-manager-pro" folder under qa-plugin folder.
3. Log in as super admin.
4. Go to "admin" > "Pages"
5. Click "add link" of Database (Database manager pro) page
6. Text of link: "Database" (Recommended)
7. Position: "After tabs at top" (Recommended)
8. Visible for: "**Administrators**" (Recommended)
For security reason, only super admin can use this plugin.
9. URL of link: "database" (Recommended)
10. Click "Add Link" button

3.3 CRON settings

Please call **qa-dmp-cron.php** by "crontab". Make the start distance of each program as short as possible. However, please don't forget that big load hangs to your server when each program increases quantity to process at a time.

Example settings:

```
* /5 * * * * /usr/local/bin/php -f
/path/to/q2a/qa-plugin/db-manager-pro/qa-dmp-cron.php 1>/dev/null
2>/dev/null
```

Setting methods of crontab are different every server (e.g. Command Line Terminal, Control Panel, etc). Please set according to grammar below.

<http://en.wikipedia.org/wiki/Cron>

<http://php.net/manual/en/features.commandline.php>

3.4 Uninstall

1. Log in as super admin.
2. Go to "admin" > "Pages"
3. Click "edit link" of Database (Database manager pro) page
4. Check "Delete this link"
5. Click "Save Changes" button

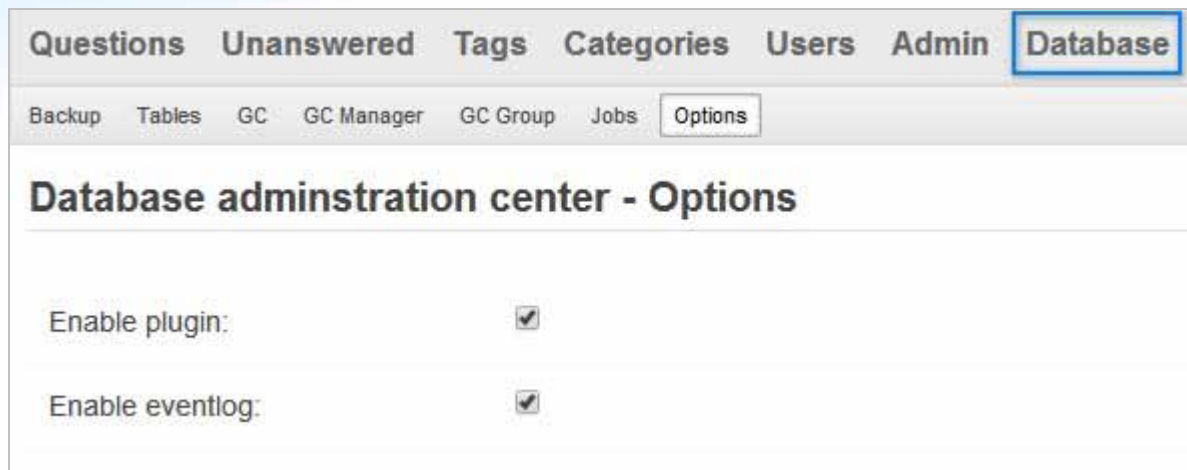
(For users who want to completely delete)

6. Drop "^dmp_*" tables in database.
7. Delete records that "title" = "dmp_*" of "^options" table.

4. Options

1. Log in as super admin
2. Go to "Database" > "Options"

4.1 General



Enable plugin

OFF: Plugin is disabled.

ON: Plugin is enabled (default).

Enable eventlog

OFF: Actions in DMP are recorded as event log.

ON: Actions in DMP are recorded as event log (default).

Refer to "Appendix C" about event types.

4.2 Link

Link	
Link CSS:	<input checked="" type="checkbox"/>
Link theme CSS:	<input checked="" type="checkbox"/>
Link JS:	<input checked="" type="checkbox"/>

Link CSS

OFF: Basic CSS file of this plugin is not linked on this plugin pages.

ON: Basic CSS file of this plugin is linked on this plugin pages (default).

Link theme CSS

OFF: CSS file of each theme is not linked on this plugin pages.

ON: CSS file of each theme is linked on this plugin pages (default).

Refer to next page about "Theme".

Link JS

OFF: Basic JS file of this plugin is not linked on this plugin pages.

ON: Basic JS file of this plugin is linked on this plugin pages (default).

These options are used when you are using third party themes (e.g. FlexArmorX, etc). Usually, please check all always.

4.3 Theme

Theme	
Theme:	Base style ▼
Table classes for Base style:	row-border cell-border hover stripe
Table classes for Bootstrap:	table table-bordered table-hover
Table classes for Foundation:	display
Table classes for jQuery UI:	display
Date time format:	Y/m/d H:i <small>Description: date.</small>

Theme

Base style: Table is displayed without specific library (Default).

Bootstrap: Table is displayed with Bootstrap style.

Foundation: Table is displayed with Foundation style.

jQuery UI: Table is displayed with jQuery UI style.

Table classes for Base style

Table classes for Bootstrap

Table classes for Foundation

Table classes for jQuery UI

This is classes added table tag in case of each theme.

Usually do not need to change.

Date time format

Format of the date time fields in the table (Default: Y/m/d H:i).

In details, refer to "format" parameter of [date](#) function of PHP.

4.4 Backup

Backup

Path to backup folder:

The absolute path to backup folder with trailing slash. Please confirm the folder is writable.

Maximum backup files:

It will be removed in order from the oldest file.

Path to mysqldump:

The absolute path to mysqldump. If unsure, please contact administrator of your server.

Path to gzip:

The absolute path to gzip. If unsure, please contact administrator of your server.

Backup command:

Description: [mysqldump](#)
 - Replace rules -
 ^mysqldump: Path to mysqldump
 ^host: QA_MYSQL_HOSTNAME in qa-config.php
 ^user: QA_MYSQL_USERNAME in qa-config.php
 ^pw: QA_MYSQL_PASSWORD in qa-config.php
 ^db: QA_MYSQL_DATABASE in qa-config.php
 ^gzip: Path to gzip
 ^folder: Path to backup folder
 ^date: Date time format of the file name

Date time format of the file name:

Description: [date](#). Don't enter characters that can not be applied to the file name.

Path to backup folder

Absolute folder path for storing backup files. Default path is generated automatically according your system.

Maximum backup files

The maximum number of backup files (Default: 10).

Older files will be deleted in the order.

Path to mysqldump

Path to gzip

Absolute path to "mysqldump" / "gzip" CL tool. In most case, default path is generated automatically according your system. However, if there is no command in your system, it might not be correctly. In that case, please ask to server manager of your server.

Backup command

Command line template for backup database.

Default:

```
^mysqldump -h^host -u^user -p^pw ^db | ^gzip > ^folder^db-^date.sql.gz
```

Replace rules:

- ^mysqldump: Path to mysqldump
- ^host: QA_MYSQL_HOSTNAME in qa-config.php
- ^user: QA_MYSQL_USERNAME in qa-config.php
- ^pw: QA_MYSQL_PASSWORD in qa-config.php
- ^db: QA_MYSQL_DATABASE in qa-config.php
- ^gzip: Path to gzip
- ^folder: Path to backup folder
- ^date: Date time format of the file name

In details, refer to manual of [mysqldump](#) command.

Date time format of the file name

Prefix that is added to the end of the backup file (Default: Ymd-His).

In details, refer to "format" parameter of [date](#) function of PHP.

Don't enter characters that can not be applied to the file name.

4.5 Restore

Restore

Path to mysql:	<input style="width: 90%;" type="text" value="/usr/local/mysql/bin/mysql.exe"/> <small>The absolute path to mysql. If unsure, please contact administrator of your server.</small>
Path to zcat:	<input style="width: 90%;" type="text" value="zcat.exe"/> <small>The absolute path to zcat. If unsure, please contact administrator of your server.</small>
Restore command:	<input style="width: 90%;" type="text" value="^zcat ^file ^mysql -h^host -u^user -p^pw ^db"/> <small> Description: mysql -- Replace rules -- ^zcat: Path to zcat ^file: Path to import file ^mysql: Path to mysql ^host: QA_MYSQL_HOSTNAME in qa-config.php ^user: QA_MYSQL_USERNAME in qa-config.php ^pw: QA_MYSQL_PASSWORD in qa-config.php ^db: QA_MYSQL_DATABASE in qa-config.php </small>

Path to mysql

Path to zcat

Absolute path to "mysql" / "zcat" CL tool. In most case, default path is generated automatically according your system. However, if there is no command in your system, it might not be correctly. In that case, please ask to server manager of your server.

Restore command

Command line template for restore database.

Default: `^zcat ^file | ^mysql -h^host -u^user -p^pw ^db`

Replace rules:

- ^zcat: Path to zcat
- ^file: Path to import file
- ^mysql: Path to mysql
- ^host: QA_MYSQL_HOSTNAME in qa-config.php
- ^user: QA_MYSQL_USERNAME in qa-config.php
- ^pw: QA_MYSQL_PASSWORD in qa-config.php
- ^db: QA_MYSQL_DATABASE in qa-config.php

In details, refer to manual of [mysql](#) command.

4.6 CRON

CRON

Enable CRON Job:

Enable maintenance mode:

Job count:

Assign processed jobs per one CRON process. If this value is small, processing time of CRON will be shorter and server load will be decrease.

Enable CRON Job

OFF: Jobs in "Job" tab are executed by Linux CRON job scheduler.

ON: Jobs in "Job" tab are not executed by CRON (default).

Enable maintenance mode

OFF: Site does not become maintenance mode while processing (Default).

ON: Site becomes maintenance mode while processing.

If you use this option, operation of users who are already logged in may be interrupted. Do not use this option unless unavoidable.

Job count

Processed jobs per one CRON call. If this value is small, processing time of CRON will be shorter and server load will be decrease. However, the risk of the job can not be processed at the correct time is increased.

Save

Settings of this tab are saved.

Reset

Settings of this tab are reset.

5. Backup

1. Log in as super admin
2. Go to "Database" > "Backup"

5.1 Files

The screenshot shows the 'Database administration center - Backup' interface. At the top, there are navigation tabs: Questions, Unanswered, Tags, Categories, Users, Admin, and Database. Below these are sub-tabs: Backup, Tables, GC, GC Manager, GC Group, Jobs, and Options. The main heading is 'Database administration center - Backup'. Underneath is a 'Files' section with the instruction 'Please select file by clicking table row.' There is a 'Show 10 entries' dropdown and a 'Search:' input field. A table displays three backup files with columns for File, Date/Time, and Size. Below the table, it says 'Showing 1 to 3 of 3 entries' and has 'Previous', '1', and 'Next' navigation buttons. At the bottom, there are four buttons: Reload, Download, Delete, and Delete all.

File	Date/Time	Size
qa-20150129-144538.sql.gz	2015/01/29 14:45	25.9KB
qa-20150129-141416.sql.gz	2015/01/29 14:14	26.5KB
qa-20150129-140910.sql.gz	2015/01/29 14:09	24.8KB

Show XX entries

Max display count of backup files (Default: 10).

Search

Table items are filtered with input strings.

Table

The information of backed up files are displayed.

File

File name of the backed up files

Date/Time

Backed up date and time

Size

File size of the backed up files

Reload

Page is reloaded. Check processing of files is executed again.

Download

Selected file is downloaded.

Delete

Selected file is deleted.

Delete all

All files are deleted.

5.2 Backup

Backup		
Check item	Description	Status
Backup folder exists	Z:/www/v17-fa2-dmp/qa-plugin/db-manager-pro/backup/	OK
Backup folder writable	Z:/www/v17-fa2-dmp/qa-plugin/db-manager-pro/backup/	OK
mysqldump exists	/usr/local/mysql/bin/mysqldump.exe	OK
gzip exists	/usr/bin/gzip.exe	OK
system()	function_exists()	OK

Check Item

Check items for backup

Description

Check data for backup

Status

OK: This check item is OK

NG: This check item is NG

Reload

Page is reloaded.

Backup

Your database is backed up.

Add Job

Job dialog is displayed.

If there is NG item in check table, "Backup" and "Add Job" are not display.

5.3 Restore

Restore		
Check item	Description	Status
mysql exists	/usr/local/mysql/bin/mysql.exe	OK
zcat exists	/usr/bin/zcat.exe	OK
system()	function_exists()	OK

Check Item

Check items for restore

Description

Check data for restore

Status

OK: This check item is OK

NG: This check item is NG

Reload

Page is reloaded.

Restore

Your database is restored with selected backup file.

Add Job

Job dialog is displayed.

If there is NG item in check table, "Restore" and "Add Job" are not display.

6. Tables

1. Log in as super admin
2. Go to "Database" > "Tables"

Questions Unanswered Tags Categories Users Admin Database						
Backup Tables GC GC Manager GC Group Jobs Options						
Database administration center - Tables						
	Name	Engine	Records	Size	Status	
	qa_blobs	InnoDB	1	16KB	OK	<input type="checkbox"/>
	qa_cache	InnoDB	1	32KB	OK	<input type="checkbox"/>
	qa_categories	InnoDB	4	64KB	OK	<input type="checkbox"/>

+	qa_dmp_gc	InnoDB	33	16KB	OK	<input type="checkbox"/>
+	qa_dmp_gcgroup	InnoDB	5	16KB	OK	<input type="checkbox"/>
+	qa_dmp_job	InnoDB	13	16KB	OK	<input type="checkbox"/>
+	qa_eventlog	MyISAM	2	5.1KB	OK	<input type="checkbox"/>

			1,988	2.1MB		<input type="checkbox"/>

Showing 1 to 40 of 40 entries

[Reload](#)
[Optimize](#)
[Repair](#)
[Empty](#)
[Drop](#)
[Optimize Job](#)
[Repair Job](#)
[Empty Job](#)

Table

Existing tables are displayed. All tables are checked with "check table" query.

Flag

Blank: Default Q2A tables

"+": Option tables (other than default Q2A tables)

Name

Table names

Engine

Database engine type

Records

Record number in tables

Size

Data size (Data size + Index size + Overhead area)

Status

Check result by "Check table" query

Checkbox

You can choose tables. And you can choose all tables with top and bottom.

Reload

Page is reloaded. Check process of tables is executed again.

Optimize

Selected tables are optimized with "optimize table" query.

Repair

Selected tables are repaired with "repair table" query.

Empty

Selected tables are truncated with "truncate table" query.

Drop

Selected tables are dropped with "drop table" query.

Optimize Job

Job dialog for optimizing selected (or all) tables is displayed.

Repair Job

Job dialog for repairing selected (or all) tables is displayed.

Empty Job

Job dialog for emptying selected tables is displayed.

7. GC

1. Log in as super admin
2. Go to "Database" > "GC"

Questions Unanswered Tags Categories Users Admin Database

Backup Tables **GC** GC Manager GC Group Jobs Options

Database administration center - GC

Garbage Collection

When you hover mouse on process, description will be displayed.

Search:

	Process	Status	
cache			
	Truncate cache	1 record(s)	<input type="checkbox"/>
	Delete cache older than one year	0 record(s)	
	Delete cache older than one month	0 record(s)	
cleanup			
	Reindex content		<input type="checkbox"/>
...			
eventlog			
	Truncate eventlog	3 record(s)	<input type="checkbox"/>
...			
messages			
	Truncate messages	0 record(s)	
...			

Showing 1 to 11 of 11 entries

Search

Table items are filtered with input strings.

Table

GC processes enabled in GC manager and GC group manager are displayed.

Group

GC group name

GC processes of the same group are aggregated.

Process

Title of GC process

Status

Check result of this GC process

“(blank)”: There is no information to be checked

“X records”: There is no information to be checked

Checkbox

You can choose GCs. And you can choose all GCs with top checkbox.

Reload

Page is reloaded. Check process of GCs is executed again.

Execute

GCs are executed.

8. GC Manager

1. Log in as super admin
2. Go to "Database" > "GC Manager"

8.1 Garbage Collectors

Questions Unanswered Tags Categories Users Admin Database

Backup Tables GC **GC Manager** GC Group Jobs Options

Database administration center - GC Manager

Garbage Collectors

Please select item by clicking table row. When you hover mouse on process, description will be displayed.

Show entries Search:

ID
Process

cache				
<input checked="" type="checkbox"/>	1	1		Truncate cache
<input checked="" type="checkbox"/>	2	2		Delete cache older than one year
<input checked="" type="checkbox"/>	3	3		Delete cache older than one month
cleanup				
<input checked="" type="checkbox"/>	1	20		Reindex content
<input checked="" type="checkbox"/>	2	21		Recount posts

Showing 1 to 5 of 33 entries Previous 2 3 4 5 6 7 Next

Show XX entries

Max display count of GC (Default: 5).

Search

Table items are filtered with input strings.

Table

GC processes enabled in GC group manager are displayed.

Group

GC group name

GC processes of the same group are aggregated.

Enable

Checked: This GC is displayed in GC tab.

Unchecked: This GC is displayed in GC tab.

Order

GC items are displayed according to this value with ascending order.

Id

This is GC id on database. Mainly, this is used at matching with event log.

Process

Title of GC process

Reload

Page is reloaded.

Enable

Selected GC item is enabled.

Disable

Selected GC item is disabled.

Delete

Selected GC item is deleted.

Enable all

All GC items are enabled.

Disable all

All GC items are disabled.

Delete all

All GC items are deleted.

Add Job

Job dialog for adding selected GC to job list is displayed.

8.2 GC Editor

GC Editor

Enable	<input checked="" type="checkbox"/>
Group	<input type="text" value="cache"/>
Display order	<input type="text" value="1"/>
Title:	<input type="text" value="Truncate cache"/> <small>Enter brief name of item.</small>
Description	<input type="text" value="All records are deleted."/> <small>Enter description of item. HTML allowed</small>
Type	<input type="text" value="Function"/>
Check process	<input type="text" value="qa_dmp_gc_cache_check"/> <small>"Query": Enter query string for checking database. ^ is replaced to table prefix. "Function": Enter function name under "functions" folder for checking database.</small>
Action process	<input type="text" value="qa_dmp_gc_cache_action"/> <small>"Query": Enter query string for updating database. ^ is replaced to table prefix. "Function": Enter function name under "functions" folder for updating database.</small>

When GC row is selected, GC data are reflected to each field.

Enable

OFF: This GC is disabled.

ON: This GC is enabled.

Group

You can include this GC to another group.

Display order

You can change display order of this GC.

Title

You can change GC title.

Description

You can change GC description.

Type

You can change GC type.

Query: Contents of "Check process" and "Actions process" will be executed as a command (query) to the database. This is suitable for simple process.
E.g.: select count(*) from ^users.

Function: Contents of "Check process" and "Actions process" will be executed as dynamic PHP function. This is suitable for complex process.
E.g.: qa_dmp_gc_user_check / qa_dmp_gc_user_action.

Check process

You can write query or function name for check process.

Action process

You can write query or function name for action process.

Update

Selected GC is updated with these field values.

Insert

GC item is added as new record with these field values.

9. GC Group

1. Log in as super admin
2. Go to "Database" > "GC Manager"

9.1 Garbage Collectors Group

Questions Unanswered Tags Categories Users Admin Database

Backup Tables GC GC Manager GC Group Jobs Options

Database administration center - GC Group

Garbage Collectors Group

Please select item by clicking table row. You can run garbage collectors of valid group.

Show entries Search:

<input checked="" type="checkbox"/>		Group	Description
<input checked="" type="checkbox"/>	1	cache	Related cache data
<input checked="" type="checkbox"/>	2	messages	Related messages data
<input checked="" type="checkbox"/>	3	eventlog	Related eventlog data
<input checked="" type="checkbox"/>	4	cleanup	Database clean-up operations of admin > stats page
<input checked="" type="checkbox"/>	5	users	Related user data

Showing 1 to 5 of 5 entries Previous Next

Show XX entries

Max display count of GC groups (Default: 5).

Search

Table items are filtered with input strings.

Table

GC groups are displayed.

Enable

Checked: GC items included this group are displayed in GC tab and GC Manager tab.

Unchecked: GC items included this group are not displayed in GC tab and GC Manager tab.

Order

GC groups are displayed according to this value with ascending order.

Group

Title of GC group

Description

Description of GC group

Reload

Page is reloaded.

Enable

Selected GC group is enabled.

Disable

Selected GC group is disabled.

Delete

Selected GC group is deleted. GC Items included in this group become items which do not belong to any group.

Enable all

All GC groups are enabled.

Disable all

All GC groups are disabled.

Delete all

All GC groups are deleted. All GC items become which do not belong to any group.

9.2 GC Group Editor

GC Group Editor

Enable	<input checked="" type="checkbox"/>
Display order	<input type="text" value="1"/>
Title:	<input type="text" value="cache"/> <small>Enter brief name of item.</small>
Description	<div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;">Related cache data</div> <small>Enter description of item. HTML allowed</small>

When GC group row is selected, GC group data are reflected to each field.

Enable

OFF: This GC group is disabled.

ON: This GC group is enabled.

Display order

You can change display order of this GC group.

Title

You can change GC group title.

Description

You can change GC group description.

Update

Selected GC group is updated with these field values.

Insert

GC group item is added as new record with these field values.

10. Jobs

DMP jobs will be performed periodically by CRON. Maintenance load of your site will be dramatically improved by creating process that you are doing day by day as a job.

1. Log in as super admin
2. Go to "Database" > "Jobs"

10.1 Job List

[Questions](#)
[Unanswered](#)
[Tags](#)
[Categories](#)
[Users](#)
[Admin](#)
[Database](#)

[Backup](#)
[Tables](#)
[GC](#)
[GC Manager](#)
[GC Group](#)
Jobs
[Options](#)

Database administration center - Jobs

Job List

Please select item by clicking table row.

Show All entries Search:

		Title	Start	Last	Cycle	Unit
✓	1	Delete cache older than one month	2015/01/20 14:12	2015/01/21 14:15	1	day
✓	2	Delete blocked users	2015/01/20 14:12	2015/01/21 14:15	1	day
✓	5	Recalc points	2015/01/20 14:12		1	day
✓	6	Delete hidden posts	2015/01/20 14:12		1	day
✓	7	Optimize	2015/01/20 14:12		1	day
✓	8	Backup	2015/01/20 14:12		1	day

Showing 1 to 8 of 8 entries Previous 1 Next

Reload
Enable
Disable
Delete
Enable all
Disable all
Delete all

Show XX entries

Max display count of jobs (Default: 5).

Search

Table items are filtered with input strings.

Table

Scheduled jobs are displayed.

Table

Scheduled jobs are displayed.

Enable

Checked: Job is executed by CRON.

Unchecked: Job is not executed by CRON.

Order

Jobs are displayed and executed according to this value with ascending order By CRON.

Title

Title of job

Start

Date and time that job has been registered

Job is repeated on the basis of this date and time.

You can change this time in the editor.

Last

Date and time that job has been executed in the last

You can change this time in the editor.

Blank: Job has not yet been executed. You can change the number of jobs per one CRON in the option panel. So, all jobs of the same time may not be executed. Job that has not been executed in predetermined time, will be performed in the next CRON.

No blank: Job has been executed in the date and time. This job will be executed next time obtained by adding the cycle in this time.

Cycle

Execution cycle of job

Unit

Execution unit of job

Minute, Hour, Day, Week, Month

For example, job repeats at every hour in "1 hour".

Reload

Page is reloaded.

Enable

Selected job is enabled.

Disable

Selected job is disabled.

Delete

Selected job is deleted.

Enable all

All jobs are enabled.

Disable all

All jobs are disabled.

Delete all

All jobs are deleted.

10.2 Job Editor

Job Editor

Enable	<input checked="" type="checkbox"/>
Display order	<input type="text" value="1"/>
Title:	<input type="text" value="Delete cache older than one month"/> <small>Enter brief name of item.</small>
Description	<input type="text" value="Records older than one month are deleted."/> <small>Enter description of item. HTML allowed</small>
Type	<input type="text" value="GC"/>
Parameter	<input type="text" value="3"/> <small>Enter parameter of item. In case of "Query", "" is replaced all table names.</small>
Start time	<input type="text" value="2015/01/20 14:12"/>
Last time	<input type="text" value="2015/01/21 14:15"/>
Time cycle	<input type="text" value="1"/>
Time unit	<input type="text" value="Day"/>

When Job row is selected, job data are reflected to each field.

Enable

OFF: Job is disabled.

ON: Job is enabled.

Display order

You can change display and execution order of this job.

Title

You can change job title.

Description

You can change job description.

Type

You can change job type.

Backup: Your database will be backed up. In this type, "Parameter" is not required.

Restore: Your database will be restored with backup file of "Parameter".

Query: Contents of "Parameter" will be executed as query to the database. Mainly, this is used for maintenance of "Table".

E.g.: OPTIMIZE TABLE qa_blobs

GC: GC corresponding to number of "Parameter" will be executed.

E.g.: In case of "2", GC (gcid=2) is executed.

Parameter

Content corresponding to the type

Start time

Date and time that job has been registered

Last time

Date and time that job has been executed in the last

Time cycle

Job execution time cycle

Time unit

Job execution time unit

Update

Selected job is updated with these field values.

Insert

Job is added as new record with these field values.

Synchronize schedule

You can synchronize "Start time" and "Last time" of all jobs with times of

this form. Job will be executed in the time of start or last time + cycle. If you add job in each DMP tabs, the added time will be set to the start time. If you want to execute all jobs at the same time, you have to synchronize time. **This operation is valid if all jobs are executed in the same cycle.**

10.3 Job Dialog

Job Editor

Enable

Display order

Title:
Enter brief name of item.

Description
Enter description of item. HTML allowed

Type

Parameter
Enter parameter of item. In case of "Query", "*" is replaced all table names.

Start time

Time cycle

Time unit

When you are clicked "*" Job" button in DMP tabs, job dialog is displayed.

Enable

OFF: Job is disabled.

ON: Job is enabled.

Display order

You can change display and execution order of this job. Default is max value +1 of existing jobs.

Title

You can change job title. By default, appropriate name will be displayed depending on the job type.

Description

You can change job description. By default, appropriate description will be displayed depending on the job type.

Type

You can change job type. By default, appropriate type will be displayed depending on the job.

Parameter

Content corresponding to the type

By default, appropriate parameter will be displayed depending on the job type.

Start time

You can change start time of job. Default is now.

Time cycle

You can change time cycle. Default is "1".

Time unit

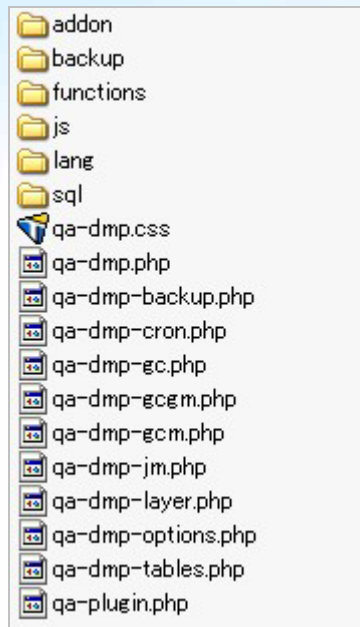
You can change time unit. Default is "Day".

Insert

Job is added as new record with these field values.

11. Customize

11.1 Plugin directory



addon folder

External addons are stored in this folder.

- DataTables: Files are related DataTables.
- datetimepicker: Files are related DateTimePicker.
- learnModal: Files are related learnModal.

backup folder

Initial backup folder. You can change backup folder in option panel. Backup folder must writable by web server.

function folder

GC functions are stored in this folder.

js folder

Javascript sources are stored in this folder.

lang folder

Translation files are stored in this folder.

sql folder

Initial table schema and records are stored in this folder.

11.2 Language (Translation)

You can add your language file with following procedure.

- 1 Copy qa-dmp-lang-default.php file.
- 2 Rename "qa-dmp-lang-**(your language code)**.php".
- 3 Edit by text editor to be able to treat UTF-8 character set.
- 4 Translate all phrases.
- 5 Save as None-BOM (Byte Order Mark) format.

11.3 GC function

You can add GC function with following procedure.

General rules:

- 1 GC function must be defined as a global scope function.
- 2 GC function name must be unique within the Q2A system.
- 3 GC function must be defined check function and action function in pairs.

Adding operation as one example:

- 1 Copy qa-dmp-gc-cache.php as qa-dmp-gc-cache2.php.
- 2 Change or delete global function name and procedure.

Check function interface:

Input parameter:

&\$message: Address of message data of GC controller

Return value:

False: That means the non-executable.

True: That means the executable.

Output:

&\$message: Check function saves check result. If there is no process to be checked, a blank is set. If it is numeric, it is interpreted as the number of records to be processed. If it is not numeric, it is displayed as it is.

Action function interface:

Input parameter: None

Return value: None

Appendix A: Pre-installed data

GC groups: (sql/qa_dmp_insert_gcgroup.sql)

Group	Description
Cache	Cache related GCs
Messages	Message related GCs
Eventlog	Eventlog related GCs
Cleanup	Database clean-up operations of admin > stats page
Users	User related GCs

GC items (sql/qa_dmp_insert_gc.sql):

Group	Process	Description
Cache	Truncate cache	All records of ^cache tables are deleted.
	Delete cache older than one year	Records older than one year are deleted.
	Delete cache older than one month	Records older than one month are deleted.
Cleanup	Reindex content	^titlewords (all): index of words in titles of posts ^contentwords (all): index of words in content of posts ^tagwords (all): index of words in tags of posts (a tag can contain multiple words) ^posttags (all): index tags of posts qa_words (all): list of words used for indexes ^options (title=cache_*): cached values for various things (e.g. counting questions)
	Recount posts	^posts (upvotes, downvotes, netvotes, hotness, acount, amaxvotes, flagcount): number of votes, hotness, answers, answer votes, flags
	Recalc points	^userpoints (all except bonus): points calculation for all users ^options (title=cache_userpointscount):
	Refill events	

	Recalc categories	
	Delete hidden posts	
Eventlog	Truncate eventlog	All records of ^eventlog tables are deleted.
	Delete eventlog older than one year	Records older than one year are deleted.
	Delete eventlog older than one month	Records older than one month are deleted.
	Delete eventlog of unregistered users	Records of unregistered users are deleted.
Messages	Truncate messages	All private and public messages are deleted.
	Delete messages older than one year	Private and public messages older than one year are deleted.
	Delete messages older than one month	Private and public messages older than one month are deleted.
	Delete messages between unregistered users	Private and public messages between unregistered users are deleted.
	Delete private messages	Private messages are deleted. Public messages are not included.
	Delete private messages older than one year	Private messages older than one year are deleted. Public messages are not included.
	Delete private messages older than one month	Private messages older than one month are deleted. Public messages are not included.
	Delete private messages between unregistered users	Private messages between unregistered users are deleted. Public messages are not included.
	Delete public messages	Public messages are deleted. Private messages are not included.
	Delete public messages older than one year	Public messages older than one year are deleted. Private messages are not included.
	Delete public messages older than one month	Public messages older than one month are deleted. Private messages are not included.
	Delete public messages between unregistered users	Public messages between unregistered users are deleted. Private messages are

		not included.
Users	Delete blocked users	
	Delete blocked users + Hide posts	Posts of users will be hidden along with deleting user account.
	Delete email unconfirmed users who have passed 1 month after registration	
	Delete unloggedin users during 1 year	
	Delete unloggedin users during 1 year + Hide posts	Posts of users will be hidden along with deleting user account.
	Delete unwritten users during 1 month after registration	
	Delete unwritten users during 1 year	
	Delete unwritten users during 1 year + Hide posts	Posts of users will be hidden along with deleting user account.

Appendix B: Overrides

Core source	Function	DMP source
qa-theme-base.php	qa_html_theme_base::head_css()	qa-dmp-layer.php
	qa_html_theme_base:: head_script ()	

Appendix C: Events

Type	Processing	DMP source
dmp_backup	Database was backed up.	qa-dmp-backup.php
dmp_restore	Database was restored.	
dmp_download	Backup file was downloaded.	
dmp_delete	Backup file was deleted.	
dmp_optimize	Tables were optimized.	qa-dmp-tables.php
dmp_repair	Tables were repaired.	
dmp_empty	Tables were truncated.	
dmp_drop	Tables were deleted.	
dmp_query	Queries were executed.	
dmp_gc	GC was executed.	qa-dmp-gc.php