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Posted By : Manas Dasgupta
Assigned To : (All Members)
D269
Date & Time : 05-04-2023 11:00:AM
Manas Dasgupta | Table optimization

Hello team,

This thread will be used to track table optimization related to Live server.

Following tables found so far which requires optimization for live **India** DB -
1)Database Name : **pmsresoftech_country_11**
tbl_cases (total 687 columns)
tbl_case_history
tbl_mst_employee
tbl_mst_employeeassign
tbl_mst_employeerate
tbl_assign_menu
tbl_assigned_templates
tbl_mst_importtemplateassign
tbl_mst_exporttemplateassign
tbl_mst_pdfexportassign
tbl_fe_assign
tbl_template_export_details
tbl_template_global_meta
tbl_mst_activity_template_fields

2) Database Name : **pmsresoftech_login**
tbl_mst_employee

3)Database Name : **pmsresoftech_country_11_backup**

tbl_cases

Note: Mam Dipika, please let us know which menus are used in master often to bulk save or delete ? Above tables are mentioned based on discussion with Shimbi team.

Posted By : Bhavana Pachpande
**Assigned To : **(All Members)
D269
Date & Time : 05-04-2023 11:17:AM
Hello,

Below mentioned table names optimization is done, some screenshots attached -

tbl_mst_employee (InnoDB and MyIsam) - Done (Both - **pmsresoftech_country_11, pmsresoftech_login**)
tbl_mst_employeeassign (InnoDB) - Done
tbl_mst_employeerate (InnoDB) - Done
tbl_assign_menu (InnoDB) - Done
tbl_assigned_templates (InnoDB) - Done
tbl_mst_importtemplateassign (InnoDB) - Done
tbl_mst_exporttemplateassign (InnoDB) - Done
tbl_mst_pdfexportassign (InnoDB) - Done
tbl_fe_assign (InnoDB) - Done
tbl_template_export_details (InnoDB) - Done
tbl_template_global_meta (InnoDB) - Done
tbl_mst_activity_template_fields (InnoDB) - Done

Pending to be done : tbl_cases and tbl_case_history

Note: Queries used during the process -
Defragment Table Query : ALTER TABLE `tableName` ENGINE = InnoDB; (For InnoDB tables only)
Re-Index Table Query: OPTIMIZE TABLE `tableName` ;

Reference URL :
Defragment : https://dev.mysql.com/doc/refman/5.7/en/innodb-file-defragmenting.html
Optimize: https://dev.mysql.com/doc/refman/5.7/en/optimize-table.html

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Before

[↧ Download]

After

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Not Done

Posted By : Ramakrishnan V
Assigned To : Bhavana Pachpande
D269
Date & Time : 05-04-2023 11:46:AM
Thanks bhavana
Hope this improves the speed on the transactions dependent on these tables.

Please try to do for the other two important tables tbl_cases and history as soon as possible
Posted By : Bhavana Pachpande
Assigned To : (All Members)
D269
Date & Time : 06-04-2023 12:22:AM
Hello,

Below mentioned pending table names optimization is done, some screenshots attached -
1) tbl_cases (both DB)
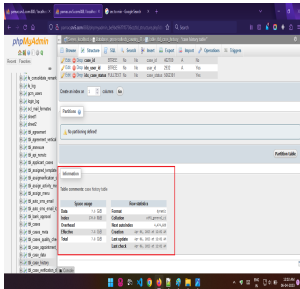2) tbl_case_history

[↧ Download]

After

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Before

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After

Posted By : Ramakrishnan V
Assigned To : Bhavana Pachpande
D269
Date & Time : 06-04-2023 01:05:PM
Thanks Bhavana
Posted By : Ramakrishnan V
Assigned To : Bhavana Pachpande
D269
Date & Time : 08-04-2023 06:17:PM
Now that we have done this exercise, don't you think that this should be done periodically (may be once a month or quarter or half year) and if so should we not have a cron job for the same.

Please let me know your views in this regard.
Posted By : Bhavana Pachpande
Assigned To : (All Members)
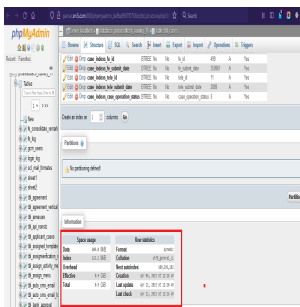D269
Date & Time : 21-04-2023 12:34:AM
Hello team,

As per last discussion all 3 database tables are optimized for live India server. Some screenshots attached.
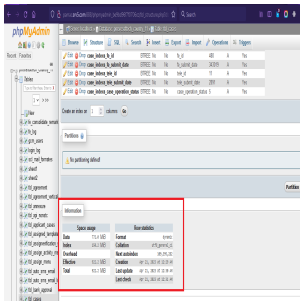
pmsresoftech_login
pmsresoftech_country_11_backup
pmsresoftech_country_11
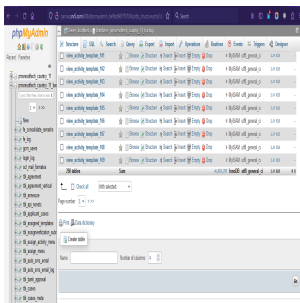
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Before

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After

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After

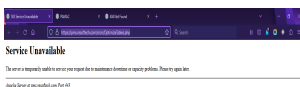**Posted By :** Manas Dasgupta
Assigned To : (All Members)
D269
Date & Time : 01-05-2023 12:50:AM
Hello team,

After successful test of cron jon in demo server, today tested in live India server with script timeout issue, screenshot attached.

Also log file was not created.

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Posted By : Manas Dasgupta

Assigned To : (All Members)
D269
Date & Time : 02-05-2023 04:22:PM
Hello,

Please check below URL for reference used to re-index table. We have used the [ALTER TABLE Method. in the cron script.](#)

Ref URL : https://dev.mysql.com/doc/refman/5.7/en/rebuilding-tables.html
Posted By : Manas Dasgupta
Assigned To : Ramakrishnan V
D269
Date & Time : 09-08-2023 06:06:PM
Hello sir,

As per new changes in table optimization script to drop and add index in all tables in all database, below is attached test result zip. Please check.

The zip contains :

1) screenshot of some table index and their size before cron run and after cron run.
2) screenshot of optimization script run response. (total 3 times). Got errors 2 times for a table called
tbl_report_search . 3rd time it was success.
3) Log files for optimization script run.
4) **tbl_report_search** index before and after. Error was for query : to add KEY `report_id` on column s report_id and range i.e composite index. **Error message** can be seen in both optimization script run response and 1st log file.

Note:
1) I have added the index back again for **tbl_report_search** after cron run was completed with success. As such next run it will throw error again.
2) The optimization script does not re-index Primary keys.
3) Also note as found while searching for re-index for tables with large dataset may crash the table :
https://stackoverflow.com/questions/29377276/add-index-crashes-mysql
4) Must have backup always before running the script, script timeout issue not faced as data is less in demo server

Script File Name used for this test : **cron/OptimizeTables.php**

📄 Index Drop and Create Test AWS PAMAC Demo server.zip
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Posted By : Ramakrishnan V
Assigned To : Manas Dasgupta
D269
Date & Time : 09-08-2023 06:26:PM
Hi

From the details given by you it looks like reindexing through cron job is happening. However, i also find that there are many tables which probably do not have an index. Please confirm that these are small tables and probably not used for query / report enquiry etc.

Regarding the large table reindexing, if the same is done in the night 2.00 am + there should normally not be any issue as a) the back up would have been taken by then; 2) there won't be any user at that time or may be only a

couple of them. Hence the cron should run properly.

This cron job can be run once every sunday and is not required every day.   This also would reduce the risk of failure.
Let us give it a try in production for one day and check the performance after the backup is taken.

Ramakrishnan
Posted By : Ramakrishnan V
Assigned To : Manas Dasgupta
D269
Date & Time : 09-08-2023 06:29:PM
please also confirm to whom does the email on success or failure go.

Is Ganesh included in the list. If not please include ganesh as receipient of email of success or failure.
Posted By : Manas Dasgupta
Assigned To : Ramakrishnan V
D269
Date & Time : 10-08-2023 10:34:AM
Hello sir,

1) Before scheduling cron for live server need to check and resolve the add index issue as found for table **tbl_report_search** . Need to find the purpose of the table and its composite index where it fails. Please check above attached zip file for more details on error message, it can be found in cron Screenshots Cron folder.

2) For email logic, it is kept disabled for now. Since script can take more time to execute if activated to send the email.
We will check log files as it will be more detailed and remove the email function.
Log Path: /image_del_log/cron_table_reindex
File Name example: table-reindex-log_2023-08-09.txt

3) Yes as found in log some tables have only Primary key as index no secondary indexes. Use of each of the table will take time to identify in code, which we will do in the next process as discussed with Shimbi team.
Posted By : Ramakrishnan V
Assigned To : Manas Dasgupta
D269
Date & Time : 10-08-2023 10:55:AM
✏️
Hi manas
point 1 Ok - get the error identified and do the needful.
Point 2 - OK - but email at tend giving one line message success or failure would be helpful Just check the possibility without hampering the performance of the cron job.
Point 3 OK - Keep this in mind during your upgradation process - you can mention this in D266.
[Reply] [Cancel]