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Posted By : Super Admin
Assigned To : (All Members)
D283
Date & Time : 23-08-2023 01:40:PM
Manas Dasgupta | Updates and our response

Hello All

It took me some time to reconfirm our findings until the 22 August 2023 evening at 6 pm.

So far, we have found

1. Queries with * used,
2. some subqueries (The list is dynamic and long)
3. Some queries with Count are used

Are is causing some delays in QC, Case, and Report Modules.
We are yet to check other modules as well as other queries.

Comparative analysis is posted in MyProject.

Why does it work earlier, and why is it slowing down now?
We don't yet have a sure answer, but the number of users may be the cause. We don't have historical data for this, so we can't say 100% is the cause.

Now that from the last seven days, we have such data, so we will able to draw some conclusions in the future.

All observation, updates, and priority is listed in Thread on MyProject
D282 | 31-Jul-2023 01:18 pm | **Manas Dasgupta** - [SQL query optimization](#)

This thread is updated from time to time and is only our channel of official communication.

The above three listed causes are just finding so far.
As we proceed, we expect to find further issues or opportunities to optimize the system.

Besides this, we are working on some issues related to Indexing (Now on low priority to D282); updates can be found at D269 | 05-Apr-2023 11:00 am | **Manas Dasgupta** - Table optimization

We are working on it and will submit daily progress in Daily reports and respective threads.

Request you to refer them.

Best Regards
Siddharth
Posted By : Ramakrishnan V
Assigned To : (All Members)
D283
Date & Time : 24-08-2023 03:17:PM
noted
Posted By : Manas Dasgupta
Assigned To : (All Members)
D283
Date & Time : 24-08-2023 05:07:PM
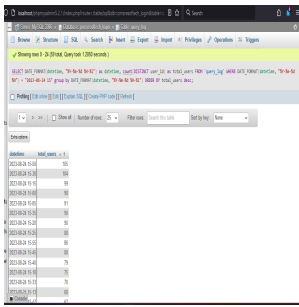Hello team,

As per today 2023-08-24 log check during slow issue started around 3:00 PM user count was increased. We have checked using query for user count grouped by hour and minute for 13,14 and 15 hours, screenshot attached.

The highest count is at 15 hour, which suggest that the query started to spike at that time because the number of request also increased.

Will check more if these pattern occurs, but do let us know immediately when slowness start like this.
From todays finding we can estimate that the maximum users at any minute can be considered between 70 to 80.
Beyond which slowness can trigger, but will need more data to reach further conclusion.

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Posted By : Ramakrishnan V
Assigned To : Manas Dasgupta
D283
Date & Time : 31-08-2023 05:03:PM
Hi today also there has been slowness.

My observation from the log is that the Case Verification - is taking most of the time. The select count(*) - used for first time listing is still on. This first time listing is to be removed at the earliest.   Further there are still some Select(*) from views - templates. These also need to be reviewed as most of the template views have tbl_cases as the base and getting 400+ fields for need of say 15-20 probably is also causing the slowness. Please explore and let me know.

Please go through the Logs and find out any other cause
Posted By : Manas Dasgupta
Assigned To : Ramakrishnan V
D283
Date & Time : 04-09-2023 06:05:PM
ok sir.

Case verification list page changes are pushed on live server as posted in **D282,** also * query is removed for Case verification list page and only required selected fields are used in query and also to create the view table, that is why Activity template menu code was also modified.

The activity template menu is used to create such view tables to be used in list page on user side.
Posted By : Ramakrishnan V
Assigned To : Manas Dasgupta
D283
Date & Time : 05-09-2023 11:55:AM
"Case verification list page changes are pushed on live server as posted in **D282,** also * query is removed for Case verification list page and only required selected fields are used in query and also to create the view table, that is why Activity template menu code was also modified.

The activity template menu is used to create such view tables to be used in list page on user side."

Approved
Posted By : Ramakrishnan V
Assigned To : Ganesh Sawant
D283
Date & Time : 13-09-2023 11:18:AM
on Slowness Issue:

We have been doing sql optimisation and hopefully it should reduce the chances of slowness during the monthends.

However, I request all to think of alternatives

- Options being considered
  - shift to AWS EC 32 core 64gb ram - single instance having both Application and Database- long term plan and could take some more time
  - Shift to another vendor - Altech - with 2 systems both with 16 core and 32/64gb ram separate for Application and Database - again a long term option
- Irrespective of what we choose, neither of them can meet our September month end which commences from 24th September. Therefore we need to explore other possibilities also.
- Please give a thought and let us discuss this between us.

I also request all others who view this to give their opinion on the subject.
Posted By : Manas Dasgupta
Assigned To : Ramakrishnan V
D283
Date & Time : 13-09-2023 11:53:AM
Hello sir,

Next for optimization changes we can start with following:

1) Check and remove * query, sub query or remove any duplicate query where necessary:
----
i) Client List (generated using Client Template menu)
ii) Case Verification [edit, view]
iii) Bank Verification [edit, view]
iv) Reports (for menus created using Report Creation menu)
v) Import
vi) Multiple Import

2) Optimize dropdown (Ex: client, product, verification type) queries for list page search, report search to remove any * query.

3) Add WHERE = "search_keyword" or LIKE 'search_keyword%' instead of LIKE '%search_keyword%' in query where possible for search queries
present in list page user side, reports (for menus created using Report Creation menu)

4) Suggestion for PAMAC team: Remove any unused fields from tbl_cases using field master menu.
This will reduce the number of columns present in tbl_cases table.
Check template design and remove the fields.

These are findings so far where we can continue our optimization process, need to check further for more points.

Please confirm on above mentioned points to proceed next or provide us your suggestions also.
Posted By : Ganesh Sawant
Assigned To : Ramakrishnan V
D283
Date & Time : 14-09-2023 02:39:PM
Hi Sir

Reference to your post on the slowness dated 13/9/2023 @11.18 am, we have discussed on the same and quotations collected from Altech and YR host. Details shared with Pravin for the approval.

Posted By : Manas Dasgupta
Assigned To : Ramakrishnan V
D283
Date & Time : 26-09-2023 02:31:PM
Hello sir,

Please confirm if we can start working on above mentioned next optimization changes ?
Posted **Date & Time :** 13-09-2023 11:53:AM

Posted By : Ramakrishnan V
Assigned To : Manas Dasgupta
D283
Date & Time : 26-09-2023 03:45:PM

please proceed with the first 3 points of the list given on 13-09-2023.

As regards item 4 - will ask both Dipika and Dharmendra to do the needful.

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