

In summary, the goal of this is to provide the following:

1. Identify what is causing the reports to refresh slowly (bottlenecks).
2. Creating a Power BI report that helps identify correlations in the reports with Slow Refreshes.
3. Tell us what is affecting the Refresh Times (e.g., which tables, etc.) and offer solutions on how to improve / optimize.

For this report we decided to create three visuals. The beginning visual we wanted to show the highest to lowest time it took for refreshes to happen per report. We also included the start and end time of the refreshes. Second we wanted to include a visual that shows the scheduled refresh time for each report to see if there were any correlation with the time and why the refresh was slowing down. Lastly we included a bar graph to show refresh failures to see if it was also any correlation with time

Key findings:

- We identified that the top three reports that has the longest refresh times are usually later in the day. We found that interesting and something to take note of. It is not 100% that we can contribute that to the slow refresh times at this moment because more digging needs to be done.
- We also saw that the reports with the highest refresh failures are also happening later in the day; 6 and later.
- Lastly just digging a little deeper, the top three reports with the longest refresh times had more data inside compared to others. We believe that could be something very important to why they are loading slower.

Solutions:

- Use SSMS performance management tool to run the queries and identify expensive queries.
- Look at views being used and see if it can be condensed down.
- Look at data for each report and identify what is needed and what can be cut out if possible.

Workspace	Report Name	Last Refresh Start Time	Last Refresh End Time	Average Refresh Duration	Last Refresh Status
Options	Incomplete Lumber PO - D365	03/04/24 11:04 AM	03/04/24 11:55 AM	53.46	Completed
Options	Pre-Construction PO Summary-D365	03/04/24 1:09 PM	03/04/24 1:48 PM	37.64	Completed
Construction	PO Variances-D365	03/04/24 3:12 PM	03/04/24 3:54 PM	34.17	Completed
Options	Change Orders Lookup - D365	03/04/24 2:39 PM	03/04/24 3:12 PM	32.08	Completed
Construction	BuildPro Scheduling Process-Pending Tasks-D365	03/04/24 12:32 PM	03/04/24 12:36 PM	32.02	Failed
zD365 Migration Dev Reports	Expected Gross Margin Report	03/04/24 9:02 AM	03/04/24 1:11 PM	26.70	Failed
Construction	Field Staffing-D365	03/04/24 2:39 PM	03/04/24 3:03 PM	26.52	Completed
Construction	Warranty Summary - D365	03/04/24	03/04/24	24.88	Failed

