

Technical tip 13 - Alternatives to enhance performance

The massive growth of data available has generated day-by-day larger databases. This almost exponential increase makes impossible the direct data analysis, requiring BI tools that transform isolated data into valuable information for businesses.

BXBwebsite was not developed to handle very huge cubes, but there are some alternatives that can help overcome this limitation, even in cases where there are large volumes of transactional data.

If low performance has been detected in any view, report or dashboard, we recommend that you pay attention to the following:

- Careful mapping of the data that will be transferred to the cube. Consider what is really necessary, i.e., add value to the analysis, avoiding the swelling of the cube with operational data that can be queried directly in ERP or business application. This exercise is beneficial regardless the volume limitation, resulting in more optimized and aligned cubes to BI's goal.
- Use columns with brief and abbreviated descriptions rather than descriptions with long text, which has higher processing cost. For example: we suggest the use of fantasy name instead of corporate name.
- Group data summarizing them by year, month, type and/or other dimension using GROUP BY clause in SQL script.
- Reduce the number of lines in the cube, limiting the period (date range) of the transactions to be transferred from the transactional database to the cube.
- Having calculated columns in the analysis, whose treatment tends to have higher processing cost than the calculated columns in the extractor program, check the real need of keeping them linked to the analysis.
- Create several cubes to generate different views, instead of creating a single cube containing lots of columns.
- Transfer of transactional data, in a summarized way, to a management repository (data warehouse), using BXBwebsite as front end for data exhibition.