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CA Gen model analysis solution

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Overview

The Koolmove CA Gen model export and analysis tool, in conjunction with Microsoft Power BI (a free data analysis GUI product), can facilitate software development and support processes by offering the CA Gen developer a powerful resource for exploring the complexities of CA Gen models.

This solution offers the following summary aspects into the CA Gen model:

1. Action block statement usage summary: This aspect facilitates identifying complexity within action blocks. For example, it can identify action blocks with a high statement nesting level or containing a large number of action statements.
2. Entity attribute summary: This aspect facilitates in identifying complexity within entity types. For example, it can identify entities containing a large number of attributes or containing decimal precision attribute types.
3. Workset attribute summary: This aspect facilitates identifying complexity within worksets. As with entity types, it can identify worksets containing a large number of attributes or containing decimal precision attribute types.
4. View usage summary: This aspect facilitates identifying view usage within action blocks. For example, it can identify entities or worksets with the largest number of views or views containing decimal precision attributes.

5. Group view usage summary: This aspect facilitates identifying group view usage within action blocks, such as identifying action blocks containing the largest number of group views, or group views having the highest nesting level (deep child group view nesting).

6. Entity / workset attribute usage in views summary: This aspect facilitates identifying entity / workset attribute usage in views, such as determining the most commonly used entity / workset attribute in views.

7. Function usage in action blocks: This aspect facilitates identifying function usage (including custom functions) in action blocks. For example, it can identify action blocks with a high number of 'concat' function calls.

8. Action block usage in action blocks: This aspect facilitates identifying action block usages in action blocks, such as which action blocks are called most often by other action blocks.

The Koolmove CA Gen model export tool imports CA Gen toolset .dat files and exports them to an XML database, allowing for high visibility and flexibility in analyzing model contents. The model analysis tool is very customizable. It allows sorting on different columns for the various aspect reports, and provides the ability to select additional columns for some reports, such as which action diagram statement types should be counted.