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Analytical Annotations In CDS Views

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Hello, Welcome to my blog. In this post i will explain you about Analytic Annotations in CDS Views. In my earlier post i have explained about ABAP Annotations you can check same here (<https://www.123techguru.com/abap-annotations-in-cds-views/>).

Analytical Annotations:

To be able to build analytics queries on the top of Core Data Services in the SAP S/4 HANA system, you need to understand how the Analytics Manager uses the analytics query, and how to use the analytical annotations.

Enable the CDS Data Model for Analytical Consumption

Analytics annotations enable the analytic manager for multidimensional data consumption, performing data aggregation, and slicing and dicing data. BI front ends like Design Studio and Analysis Office can consume the data via the analytic manager.

The creation of analytical models in CDS is based on analytical CDS annotations. They are part of the domain-specific annotations for CDS. For certain parts, for example hierarchies, some core CDS annotations are applied.

Analytics dataCategory and Query Annotations

The following Analytics dataCategory and Query Annotations are available:

@Analytics.dataCategory:<VALUE>

Description: By specifying the data category, the developer can give directives and hints to the analytics manager on how to interpret individual entities.

Possible values: #DIMENSION, #FACT, #CUBE or #AGGREGATIONLEVEL

The analytics manager needs a star schema (multi-dimensional) and a query to consume the data. Most annotations for defining the star schema in different CDS views are specified in ObjectModel annotations. The analytics annotations also specify the facts (center of the star schema), extraction capabilities for replicating data into further systems, and analytical query properties.

With the **@Analytics.dataCategory** annotation you can specify the following:

#DIMENSION : Views representing master data.

#FACT : Views representing transactional data (center of star schema) without redundancy. Usually it contains the measures. Typically these views are necessary for replication, therefore they should not be joined with master data views.

#CUBE: The #CUBE value also represents fact data, but #CUBE does not have to be without redundancy. This means joins with master data are possible. Queries are usually built on top of #CUBE, where data is replicated from facts.

#AGGREGATIONLEVEL: This value indicates a projection. For this kind of view, the analytic manager offers write-back functionality (planning functionality).

@Analytics.query:<VALUE>

Description: Specifies which views will be exposed to the analytics manager. These views must not be annotated with @Analytics.dataCategory = #NONE.

Possible values: true or false

Analytics dataExtraction and Details Annotations:

The following Analytics dataExtraction and Details annotations are available:

@Analytics.dataExtraction.enabled:<VALUE>

Description: With this annotation you mark views that are suitable for data replication.

Possible values: true or false

Application developers can use the annotation @Analytics.dataExtraction.enabled to mark views that are suitable for data replication. These views have to be annotated with Analytics.dataCategory (except for the value AGGREGATIONLEVEL). Setting the value to true means the view is suitable for data replication, otherwise set the value to false.

@AnalyticsDetails.query.axis:<VALUE>

Description: Position elements of a view on a specific axis.

Possible values: FREE, ROWS or COLUMNS.

With the annotation @AnalyticsDetails.query.axis, the elements of the view can be positioned on multiple axes. The elements can be directly annotated with their axis. All measures (elements which can be aggregated) need to be on the same axis. The annotation of the first measure will therefore be used for all measures of the query. If AnalyticsDetails.query.axis is not found, the system positions the measures on the columns.

The default value for elements that are not measures is the free axis. Note that elements in the projection list, which belong to the same field in the query, will be grouped together.

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






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