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## Object Model Annotations In CDS Views

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Hello, Welcome to my blog. In this post i will explain you in detail about Object Model Annotations.

### Object Model Annotations:

**ObjectModel representativeKey and ObjectModel.text.element:**



The following ObjectModel annotations are available:

## @ObjectModel.representativeKey: '<Name key field>'

**Description:** The most specific element (field or managed association) of the primary key (indicated by the keyword KEY) that represents the entity that the view is based on.

**Possible values:** <Name key field>

With the annotation **@ObjectModel.representativeKey**, the foreign key field corresponding to the representative key represents the entity. As such it can be called representative foreign key element. The foreign key association is defined on the representative foreign key element. The name of the representative key typically equals the name of the entity represented by the view. For non-text views, it is the key element for which the view serves as a value list/check table.

## @ObjectModel.text.element: '<Value>'

**Description:** Establishes the conjunction of a field with its descriptive language- independent texts.

**Possible values:** Element

With the annotation **@ObjectModel.text.element**, the first text field listed in the annotation array will be handled as descriptive text of the annotated field in OData exposure scenarios.

## ObjectModel foreignKey.association:

The following ObjectModel annotation is available:

@ObjectModel.foreignKey.association: '<Name key field>'

**Description:** Defines association to a view that represents a value list/check table of the annotated field.

**Possible values:** <Element>



With the annotation **@ObjectModel.foreignKey.association**, the annotated field must be valued equal to the annotated representative key field of the target view. The maximum target cardinality of the association has to be 1.

## DefaultAggregation annotation:

The following DefaultAggregation annotation is available:

### @DefaultAggregation: '<Value>'

**Description:** When the DefaultAggregation annotation has been specified for an element, the corresponding elements are used as so called measures.

**Possible values:** SUM, MAX, MIN, AVG, COUNT, COUNT\_DISTINCT, FORMULA and NONE

With the @DefaultAggregationannotation specified for an element, the corresponding elements are used as measures (elements that can be aggregated) both in standard CDS QL scenarios and on analytical scenarios.

The values, SUM, MAX, MIN, AVG, COUNT, COUNT\_DISTINCT, determine the default aggregation of the measure.

The value, FORMULA, indicates that the element is a formula that has to be calculated after the operands have been determined by aggregation or calculation. It should never be aggregated. For example: Margin : = (Revenue/Cost).

The value, NONE, indicates that the element is not a measure. Usually these elements are used in filters and GROUP BY statements.

## Consumption Annotation:

The following Consumption annotation is available:

### @Consumption.filter: '<Value>'

**Description:** This annotation enables filtering on elements of the underlying view. A filter should be specified before executing a query on the view.

Possible values: —



With the annotation `@Consumption.filter`, filtering on elements of the underlying view is enabled. This annotation will be interpreted by the analytics manager.

Usually filter values are entered manually by the user on a UI (filter pop-up) in order to set a filter on an element of the underlying view. Filters are not explicitly known by the Core CDS Layer, but only by clients like Data Preview, MDX, Advanced Analysis for Office, BO Explorer, or OData. It is the task of the consumption (framework) to convert the user input into the WHERE condition when accessing the data.

## VDM and OData Annotations:

The following VDM and OData annotations are available:

### `@VDM.viewType: '<Value>'`

**Description:** Defines the type of a VDM view.

**Possible values:** BASIC, COMPOSITE, or CONSUMPTION.

With the annotation `@VDM.viewType`, the VDM view type is classified. This classification is used only for SAP internal structuring and interpretation of the CDS views. Releasing CDS views for customers and partners is controlled by additional internal classification of the views.

- BASIC – views that form the core data basis without data redundancies.
- COMPOSITE – views that provide data derived and/or composed from the BASIC views.
- CONSUMPTION – views that serve for specific application purposes and may be defined based upon public interface (for example, BASIC and COMPOSITE) views.






### `@OData.publish: '<VALUE>'`

**Description:** Set this annotation when intending to generate an OData service.

**Possible values:** true or false



When the annotation **@OData.publish** is set and the CDS view is activated, the OData service is generated automatically. Subsequently, the OData service also needs to be activated in the transaction **/IWFND/MAINT\_SERVICE** manually.

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