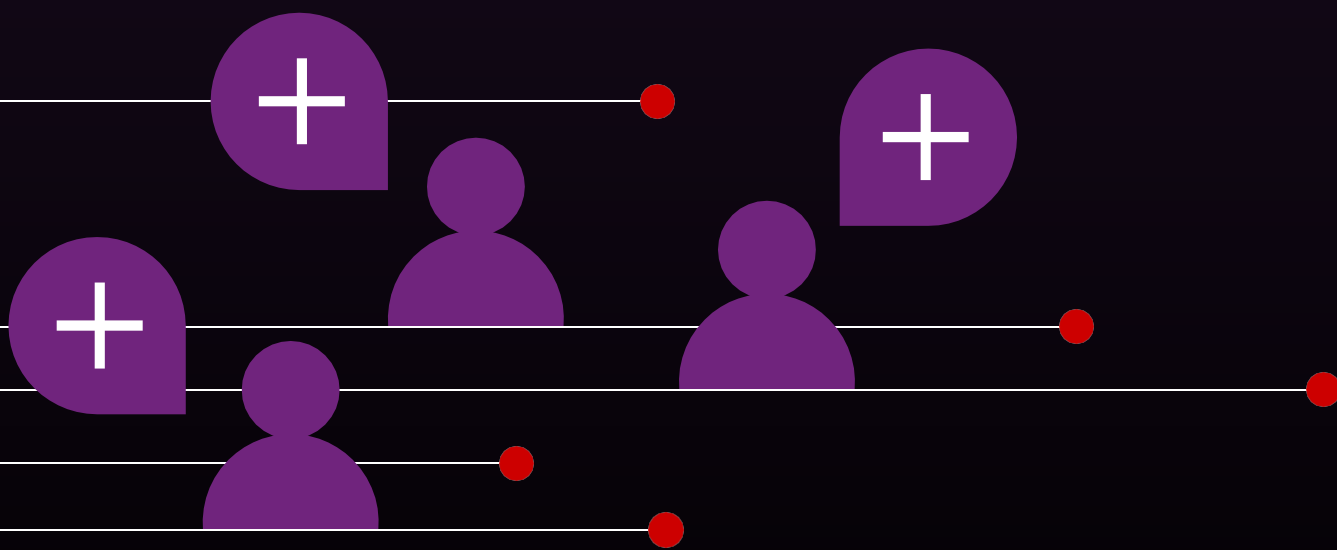




# VaultSpeed Studio

Calculated satellite



# USE CASE FOR THIS TEMPLATE

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This document describes how a user can configure a template in the VaultSpeed Studio to create a calculated satellite based on an insert-only RDV.

In the setup, only the calculated data element will be loaded in the SAT.

**Before you explore and use this example template, ensure that you understand the example SQL attached to understand what the template does and that it covers your needs.**

This template is designed for:

- Creation of a physical table
- Based on HUB SATs
- Only the calculated data is loaded

## Example

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The example that is used in this document is based on patient info.

In the Raw Data Vault model this is a SAT\_HLTH\_PATIENT.

## Components of the implementation

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- Create the Template
- Create Target definition
- Fill in the Dependency

## Create Signature objects

For this template implementation, there is no need for specific signature objects.

## Signature objects are assigned

For this template implementation, there is no need for specific signature objects.

## Create a Signature attribute type and flag the usage in the requested fields

Create the signature attribute

- AGE\_CALC\_DATE

The screenshot shows a 'Management' section with a 'Search...' input field. Below it, a 'Signature Attribute' section is expanded, showing a list with 'AGE\_CALC\_DATE' selected.

**Add the Assignment of this new SA to the attributes you want to trigger this calculation on.**

## Create the template

Template definition, according to the standard that you want to use. An essential element here is the Signature Object naming. That name is used in the .dvt file containing the template's definition. You might want or need a different name if you have multiple implementations. But then you must adapt the template file accordingly and replace all the <signature object name> references with your chosen name.

In the example, we use CSAT, because this is a calculated satellite based on a SAT.

✓	CSAT	calculated sat...	CSAT	SAT	CALC	TABLE	ALL	BUSINESS_VA...	Snowflake	Satellites on H...
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Ensure you have this use case's latest version from the following location:

<https://github.com/Vaultspeed/studio-templates> .

Each of our templates has its folder where the code resides.

## Fill in the Target Definition

The target definition is very specific to the template:

Signature Object	Signature Attribute
SAT	LOAD_TIMESTAMP
SAT	LOAD_CYCLE_ID
SAT	OTHER_ATTR
SAT	OBJECT_H_KEY
SAT	DELETE_FLAG
SAT	BUSINESS_SRC_KEY

Add new attributes for the business logic that you want to implement

Unique	Name	Prefix	Suffix	Signature Object	Signature Attribute	Data Type	Data Length ?	Data Scale ?	Actions
<input type="checkbox"/>	NUMBER_OF_YEARS_SINCE			SAT	AGE_CALC_DATE	INTEGER			 

**Attention: if the AGE\_CALC\_DATE doesn't show in the select list, that means that you didn't assign this SA to any attribute.**

## Fill in the Dependency

Define on which SAT table this template must be implemented.