



BENEFITS OF ANALYTICS CREATOR DATA WAREHOUSE AUTOMATION



1

Snapshot historization

Historical data access and comparison without recalculation

Access and compare all historical data in your reports, without having to recalculate.

A Calendar-like dimension "Snapshot" dimension is created. When selecting the snapshot date, you can look at the reports as they turned out "back then" on that snapshot date without having to recalculate the DWH or the data mart.

This gives you the opportunity to define key figures that determine differences between different snapshot values. Thus, a historical development of values can be mapped, even if no timeline was provided for this.

2

Freedom to model and code anything

Ready-made templates and support for virtually everything.

AnalyticsCreator offers extensive flexibility in modeling and coding, allowing developers to create custom DWH solutions tailored to their specific needs.

It provides a variety of ready-made templates for common DWH building blocks, which can be extended or adapted as desired.

AnalyticsCreator is primarily Microsoft-oriented, and can be used to implement virtually anything that is possible with MS SQL Server and Azure SQL DB.



3 **Independence from the software manufacturer through design-time Technology**

users can own their own DWH code and run it anywhere they want

AnalyticsCreator is a pure code generator, meaning that it generates code from the DWH model, which can then be executed without AnalyticsCreator in the Microsoft environment (Azure or on prem). This gives users independence from the software manufacturer and eliminates the need for a valid subscription.

This is a key selling point for AnalyticsCreator, and is seen as its USP#1 worldwide.

4 **Wizards.** *Where the Magic happen*

AnalyticsCreator offers a variety of wizards to help developers quickly create a draft DWH model. These wizards can generate code for each object in the data lineage, which is displayed immediately and adapts as the modeling continues.

This makes it easy for developers to get started with building a DWH model, and to experiment with different ideas without having to write a lot of code.



5

You own the Code

Get the flexibility, control, transparency, security, and cost savings of your own code.

AnalyticsCreator users own the generated code. This means that they are free to use, modify, and distribute the code as they see fit. AnalyticsCreator transfers the rights to the code to users in the EULA.

The generated code is generated in the form of a Visual Studio Solution. This solution can include a variety of components, such as:

- DACPAC files with the SQL Server database structure
- XMLA files with the structure of the OLAP cube or Power BI dataset
- SSIS Packages
- Azure Data Factory ARM Templates
- Tableau Workbooks
- Qlik Scripts
- Configuration files for SSIS packages and ADF pipelines

The generated Visual Studio Solution can be deployed both on-premises and in the cloud.

This means that AnalyticsCreator users have complete control over their DWH code. They can deploy it anywhere they want, and they are not locked into a specific vendor or platform. This is a major advantage over other DWH solutions, which often require users to pay a subscription fee and/or use a specific vendor's cloud platform.



6 **Mixed Modelling Approach**

Combine the simplicity and transparency of Kimball modeling with the versatility and adaptability of the Data Vault 2.0 architecture

One of the key benefits of Data Vault 2.0 is the use of hash keys. Hash keys and the associated hubs and links are the central point of the Data Vault 2.0 architecture.

They provide a higher level of abstraction and make DWH models more universal and extensible. However, the complexity of DWH models can increase significantly because multiple objects (hubs, satellites, and links) are created from individual source tables.

In addition, classic Kimball modeling with facts and dimensions is often easier to understand for reporting and analysis than Data Vault 2.0 modeling. This is why Kimball is often chosen for the data mart layer anyway.

The Mixed Modeling Approach combines the best and most proven modeling approaches from Kimball and Data Vault 2.0 modeling. It uses classic Kimball modeling, but in addition to business keys and business key relations, it also creates hash keys and hash key relations for all (or selected) tables.

The user can then decide for themselves which keys (hash key or business key) and which references (business key references or hash key references) should be used for historizations and transformations.

The Mixed Modeling Approach also allows users to "hash" the entire DWH model with a single mouse click. This automatically creates and uses hash keys and hash key references everywhere. This makes it very easy to convert a Kimball model to a mixed approach.



7

Data Lineage GUI for Developer and Business User

*Single interface
for developers
and business
users*

The Data Lineage GUI is a central tool for designing, developing, and managing data warehouse models. It provides a clear and elegant interface for both developers and business users, which contributes to overall understanding and collaboration.

This single interface that all users can use to interact with the data model, makes it easier for everyone to understand how the data is structured and how it flows through the system.

8

Virtual Data Warehouse -

*Save storage
space and
costs*

AnalyticsCreator creates a virtual data warehouse (DWH) by default, persisting only the storage layer and creating all other layers as views. This saves storage space and costs, and eliminates the need for recalculation of persisted objects, making the DWH extremely flexible.

This saves space and makes the DWH more efficient, as it does not need to recalculate the results of queries every time they are run.



9

**Open
Repository**

*Get flexibility
and control*

The entire meta-data model is stored in an SQL Server database, which is open for further development. Thus, add-ons can be developed that read information about the data model and store it there.

10

**Research &
Development
access**

*The difference
in Support*

We offer free access to the development for our premium customers. Inquiries are answered within 24 hours and, depending on their importance, are also realized within a very short time.

Agile Automated Data Modelling System

