QUIPU4: the next level in data management automation

Following up on its successful predecessor we are happy to announce the release of QUIPU4. We're taking things a step further by introducing the next level in data management automation using patterns as guiding principle. Making data warehouse automation, data migration, big data applications and similar projects much faster and easier. Thus reducing risk and enhancing the quality of solutions to be developed.

April 2019: We strongly believe in leveraging the knowledge of data engineers and data architects. By automating the straightforward stuff and thus killing tedious, boring jobs we bring back the fun. Allowing them to focus on the complex tasks ahead when data transformation is concerned and to spend more time satisfying business needs and truly participate in creating value for the company.

For companies we drastically reduce the risk where software engineering is concerned. No longer companies will be dependent of individual consultants, each one introducing a personal approach to coding. QUIPU4 generates the same reliable code, the same way, any time. Reducing the need for extensive testing. This boosts the overall quality of solutions to be generated.

The previous version of QUIPU4 already offered software and services that generate data warehouse solutions based on data vault. QUIPU4 takes generation to the next level and will generate more generic data management solutions based on standard patterns wherever that is possible. Including data warehouses, data migrations and big data applications. QUIPU4 will also support specification of exceptions as well where standard patterns do not apply. This way, regeneration will apply the same patterns again but will also re-apply the exceptions, resulting in the same outcome.

The first release of our new platform will include a first set of modules to reverse engineer source systems, generate HDA data models and various views to show actual data, history data or actual data including deleted data. Code can be generated for table structures and load codes using our templates. New building blocks can be developed on demand in a short period of time and will be added by us to further extend the possibilities of QUIPU4.

Model-to-model conversion

QUIPU4 is a platform that supports model-to-model conversion. And this is precisely where it distinguishes itself from existing ETL tools and other data warehouse automation tools. These tools do a good job in transforming and manipulating data on entity or attribute level but lack the support for defining and developing transformations on a model level. It is at this higher level that patterns can be found and applied, and thus can be generated. This is a far more efficient way of developing data management and data warehousing solutions.

Modular approach

QUIPU4 provides maximum flexibility in designing and automating whatever flow of architectural layers are required. The new web based graphical user interface provides a canvas where one can select the desired building blocks to achieve this. New building blocks required can be developed by us in a short period of time.

Press release

If there's a pattern, we can automate it!

Some examples:
- A user could decide to extract source data directly into a generated historical data archive (HDA) and from there straight into a couple of star schema modelled data marts;
- Another flow could be including a multitude of source data vaults all feeding one single business data vault;
- Or just a simple flow to offload data from a soon-to-be-replaced ERP system into an archive system;
- Or a flow that transfers data from on-premise applications to a data lake residing in a cloud environment;
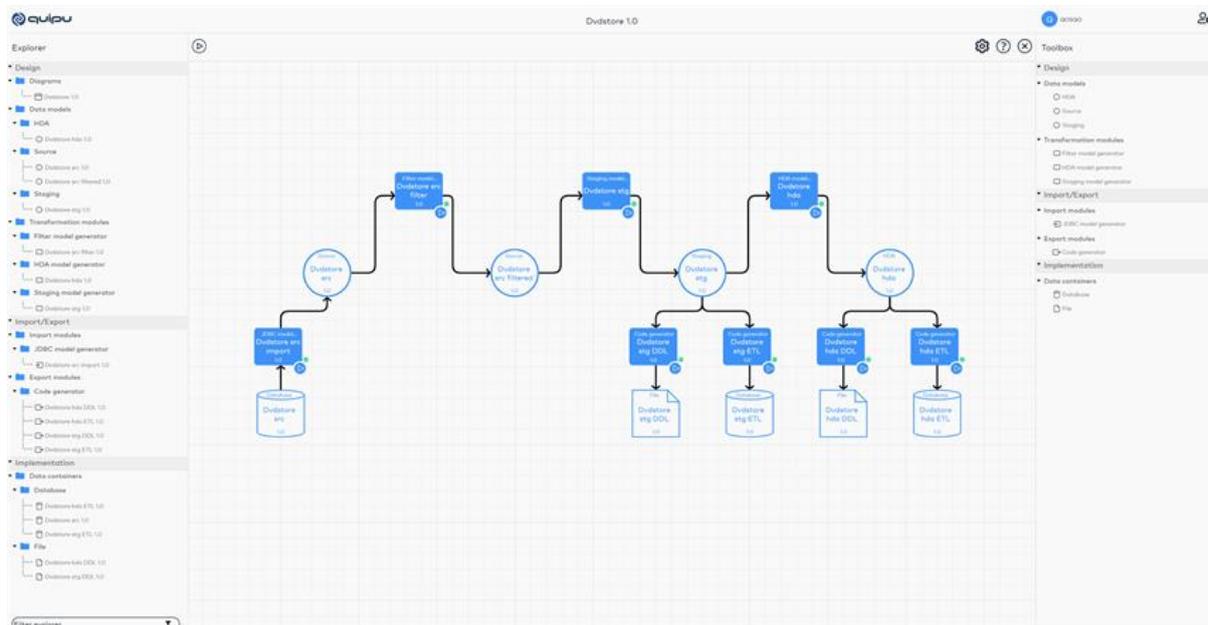- Or …

Figure: QUIPU4 canvas showing sample architecture based on combination of building blocks

Professional support

QUIPU4 is provided to customers based on a professional support contract giving access to:
- the latest version of the software;
- personal phone/mail support by our expert helpdesk;
- guidance in platform migration (e.g. database upgrades);
- assistance in migrating to the newest release of the software;
- custom template support.

Please visit our new website: www.quipu.nl
Contact: Jeroen Klep, jeroen.klep@qosqo.nl, +31 629532342