



## Qualex Healthcare Practice

### Overview

Qualex Consulting Services, Inc. (QLX) currently provides BI solutions for one of the largest healthcare insurers in the US. QLX provides consulting and implementation expertise to develop ETL processes and BI reporting using OLAP and web technology to provide access to large amounts of data stored in the customer's "Enterprise Data Warehouse." In addition we support organization that provide risk adjustment services, and analytic evaluation of measures related to HEDIS and STARS programs. We have also supported provider organization, like hospitals and other medical service organization. We have the experience to help you quickly get you data management concerns under control and develop useful and effective reporting for decision making processes.

Qualex can provide a solid data governance environment based on your specific needs. A strong component of that data governance is a well-defined data quality process. Your Data warehouse is only as valuable as the data that supports it. Building a structure and process that defines and validates that data prior to building the warehouse, not only provides a sense of security in knowing your organization has "one view of the world" but also reduces the costs associated with fixing erroneous data and rebuilding tables. Not to mention loss of value due to bad decisions based on invalid data.

An example of this data quality process is described below and was implemented for one of our customers.

### Process Description:

1. **DATA Quality Checks** - A package of repeatable data quality checks supporting validation of the five fundamental data set groups: (This data is provided by external sources and is the main source of data for the data warehouse and for analytical reporting for Healthcare Risk adjustment and HEDIS and STARS reporting. However, any sources of data in any format can be processed using this defined process.
  - a. Providers
  - b. Members
  - c. Pharmacy events
  - d. Lab events
  - e. Medical events
2. **Automation and Visualization of Data Validation and Reporting Processes-**
  - a. Used a series of stored processes to conduct data quality review at the file, column and row level. The process generates a report that highlights and describes a series of validation steps based on the customer's specific needs.
  - b. A rules based engine table is defined during the development process and is unlimited in its scope as it relates to the incoming data and is able to be easily modified as validation needs change.
  - c. The engine creates all of the processing code required for the validation process and presents the results in a web-based report.
3. **Effective and Efficient Processes –**
  - a. Support rapid movement of data from delivery point to analysis staging area. Used SAS code to instantiate a set of tables for purpose of analysis
  - b. Created DI Studio data processes that copy data from staging area to analysis tables
  - c. Support rapid and repeatable mapping of input data to analysis tables
  - d. Created a process that uses templates in tandem with DI Studio data jobs to streamline the process.

**Qualex Solution:**

There are many tools in the SAS® Software Platform designed to develop and surface information. These tools assist developer in defining the structure of the data and defining reports and analysis tools for the users. These can provide a foundation for all of these functions. However, Qualex can add value to these tools. With our extensive experience using a variety of BI and ETL tools, we can not only develop processes for analysis or reporting, but can help you better understand your data. Qualex can assist with designing data structures from the complex maze of data sources inside the typical healthcare data structure. We can work with your team to not only design a valuable reporting environment, but also provide training and expertise in a wide variety of areas. And we can leverage our experience in Data Quality and Data Management to quickly get your data management issues under control.

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