

Breaking Silos by using comprehensive Reporting solutions...

Overview:

An enterprise wide reporting system was developed for NYC based financial services company. Client was running its system on a very old in-house developed client server system and these systems were in "Silos" and cross reporting is very much limited. The primary objective of the project is to provide user extensible reporting capabilities and cross-system reporting functionality

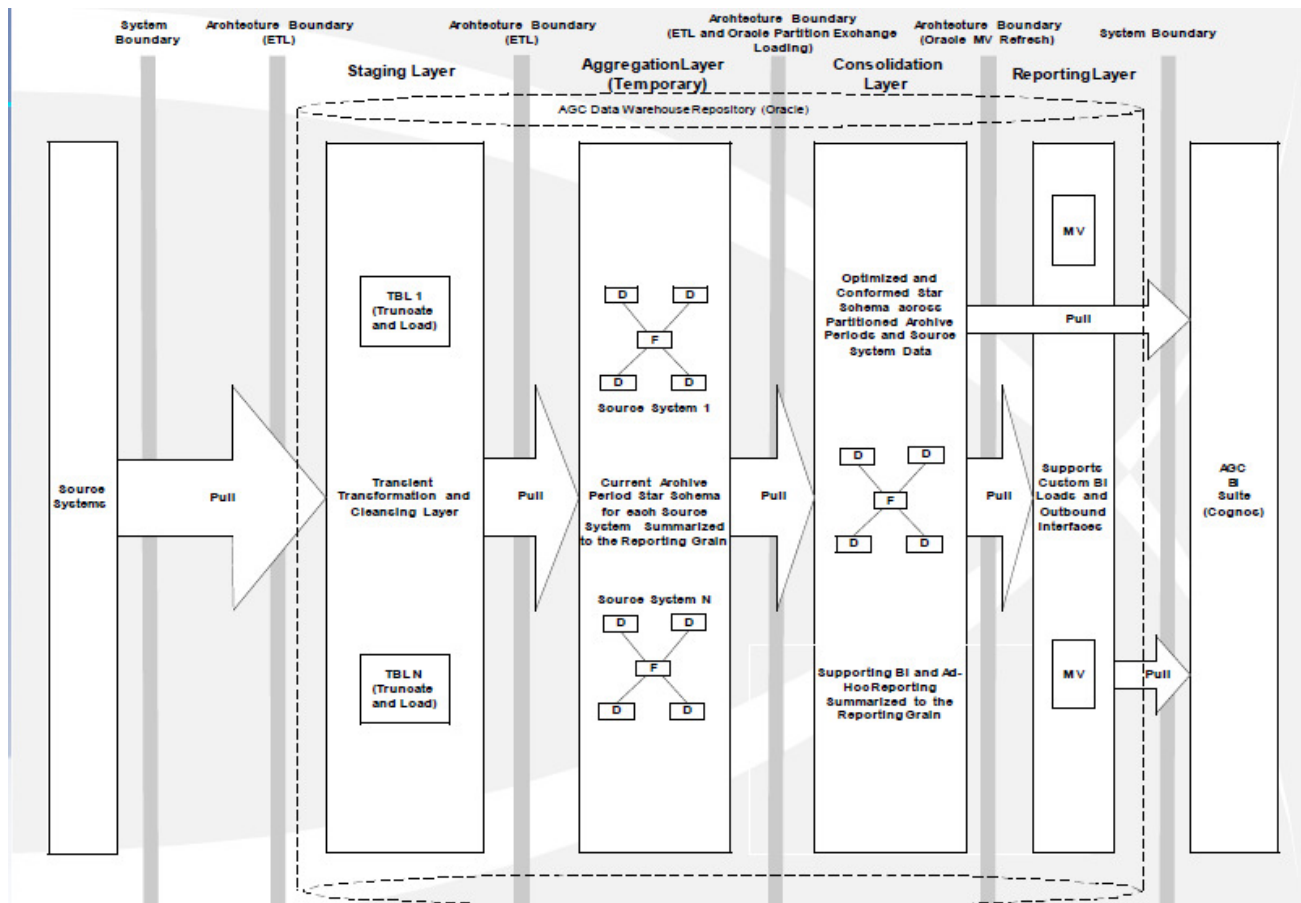
Problem Description:

Three major challenges in the project were:

- A complicated delta capture mechanism for loading the warehouse
- A warehouse design which seemed lacking in business data usage analysis leading to a database with a large amount of tables. (Dimensions>100).
- An ETL process validation mechanism consisting of row count reporting.

Solutions:

Following Solution has been provided:



- Since the data size of any DW refresh is in the range of 500MB the DW would be refreshed nightly in its entirety, forgoing any delta data load scenario. This design point will help to insure data validity.
- Since a limited number of archives are accessed in reporting, a Star Schema partitioned along archive periods will be implemented using Oracle Partitioning. In order to satisfy constant data accessibility during warehouse loads, data delivery to the warehouse reporting layer would be moved from Data Manager's transactional processing using Partition Exchange Loading
- OS level initiation of the ETL process would be provided and data driven control over the archive load process would be implemented. This provides for automation in loading the latest data archive to the warehouse (in addition to the daily "live" snapshot)
- Business level data validation (data-set subtraction) would be built into the ETL process using a "go/no-go" philosophy in allowing data to be passed to the publicly viewable reporting layer of the warehouse.

Benefits:

- Provided a single platform for cleansing, collating and storing the data from diverse sources.
- Allowed for the conversion of raw data into strategic information – to allow decision support.
- Achieved significant cost saving and reduced risks using a global delivery model.
- Improved the performance and reliability of ETL processes to ensure data availability.

Efficiently solution has been provided legacy systems.