

InformaticaTM





Informatica

Informatica is the best ETL tool in the market. It is capable of extracting data from multiple heterogeneous sources, transforming them as per business requirement and loading to target tables. Its used in Data migration and loading projects.

PowerCenter Editions

	PowerCenter Standard Edition	PowerCenter Advanced Edition	PowerCenter Premium Edition
High Performance ETL/Batch Data Integration	●	●	●
Role-based Tools for Business/IT Collaboration	●	●	●
Centralized Administration and Management	●	●	●
Rapid Prototyping for Agile Data Integration	●	●	●
Basic Data Profiling by Business	●	●	●
Partitioning	●	●	●
Bundled Relational, Batch, & ODBC Connectors	●	●	●
Metadata Manager and Business Glossary		●	●
Enterprise Grid, High Availability, and Pushdown Optimization		●	●

Informatica Versions

In Informatica, the latest version is Informatica 10.1.1, and earlier famous versions of Informatica are 9.6, 9.5, 9.1, 9.0, 8.6, 8.1, 8.0, 7.1, 6.0, and 5.0.

- Informatica PowerCenter 4.1
- Informatica PowerCenter 5.1
- PowerCenter Informatica 6.1.2
- Informatica PowerCenter 7.1.2
- Informatica PowerCenter 8.1
- Informatica PowerCenter 8.5
- Informatica PowerCenter 8.6
- Informatica PowerCenter 9.1
- Informatica PowerCenter 10

Typical use cases for Informatica can be

- An organization migrating from existing legacy system like mainframe to a new database system. So the migration of its existing data into a system can be performed.
- Enterprises setting up their Data Warehouse would require an ETL tool to move data from the Production system to Warehouse.
- Integration of data from various heterogeneous systems like multiple databases and file-based systems can be done using Informatica.
- Informatica can be used as a data cleansing tool.

Why do we need Informatica?

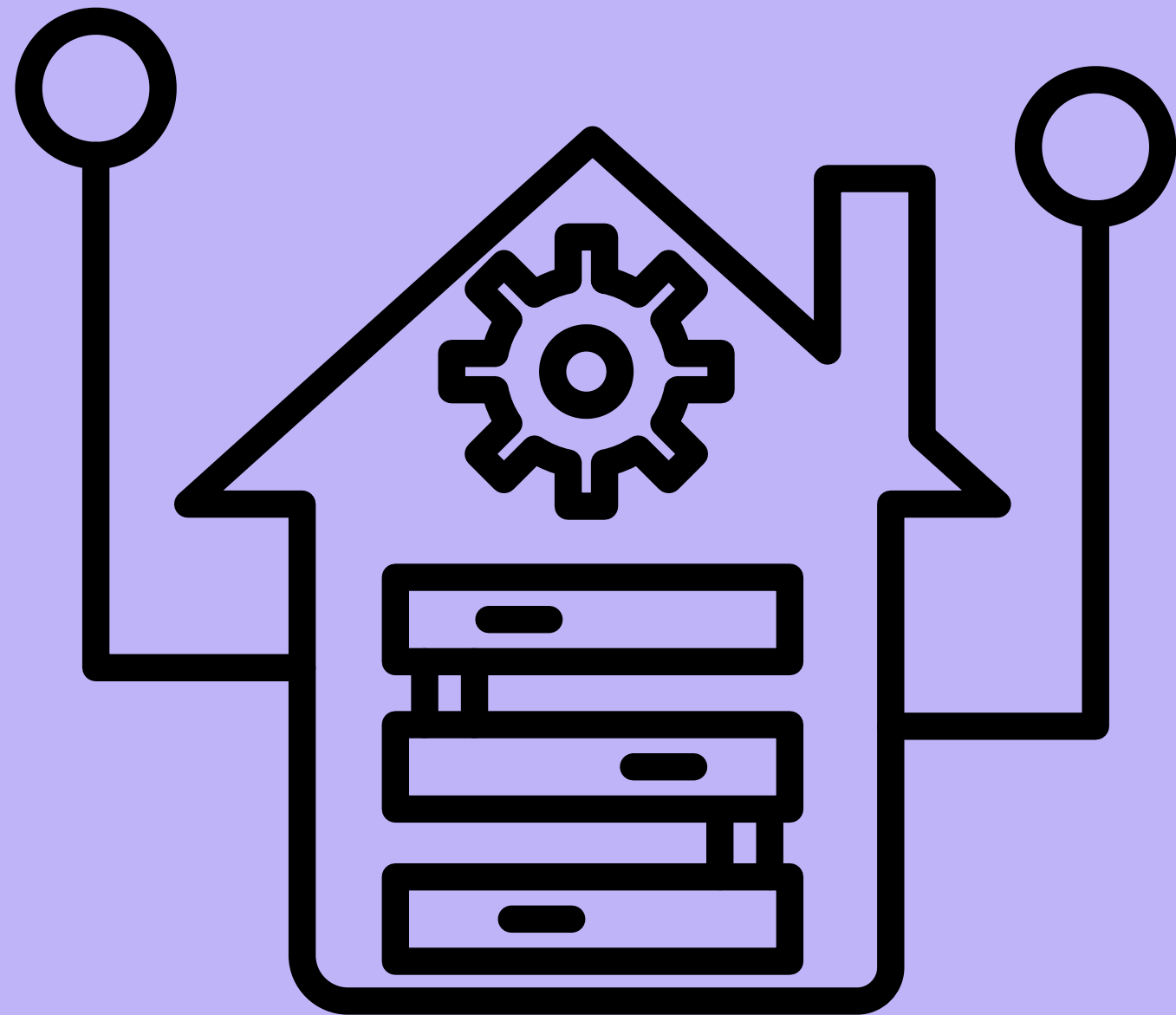




DATA WAREHOUSE

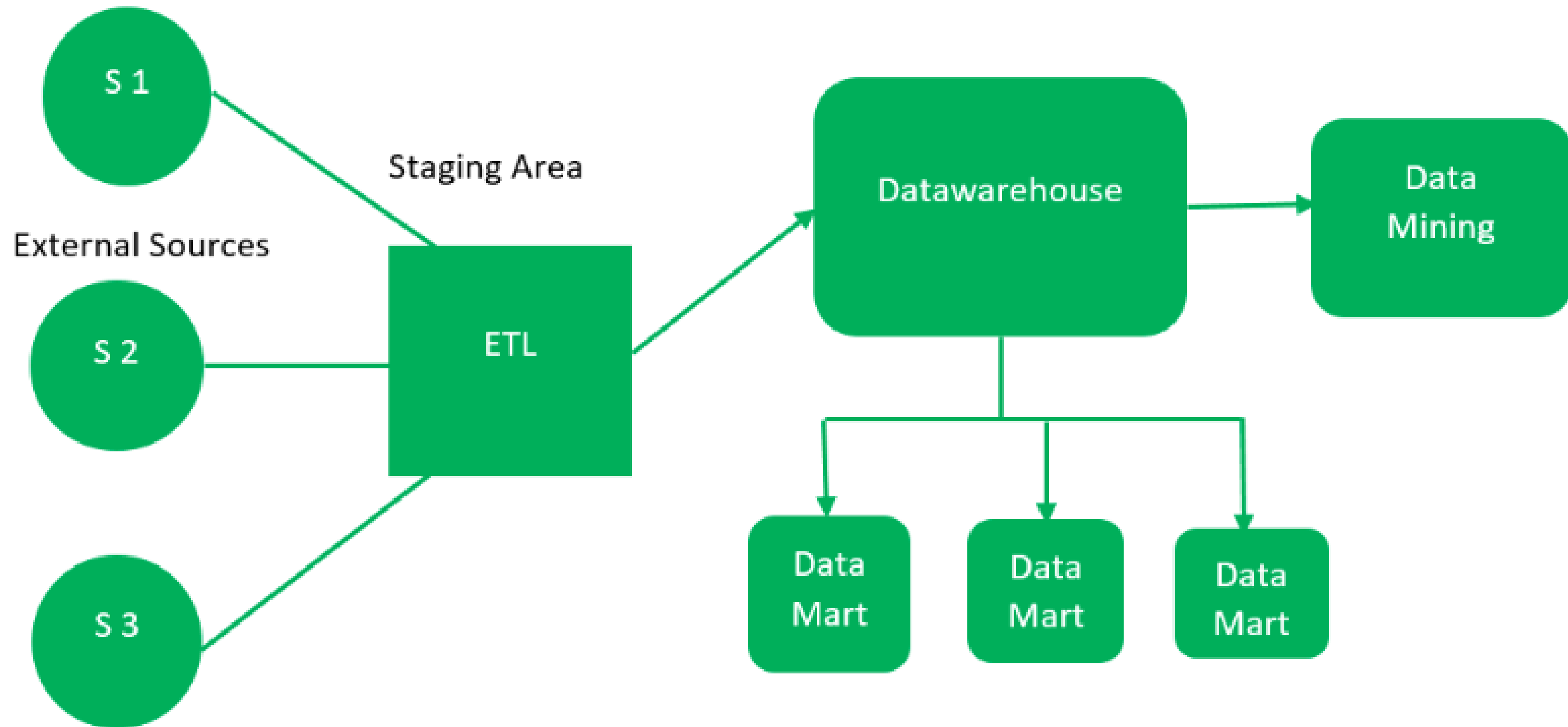


Data Warehouse Architecture



A data-warehouse is a heterogeneous collection of different data sources organised under a unified schema. There are 2 approaches for constructing data-warehouse: Top-down approach and Bottom-up approach

1. Top-down approach:



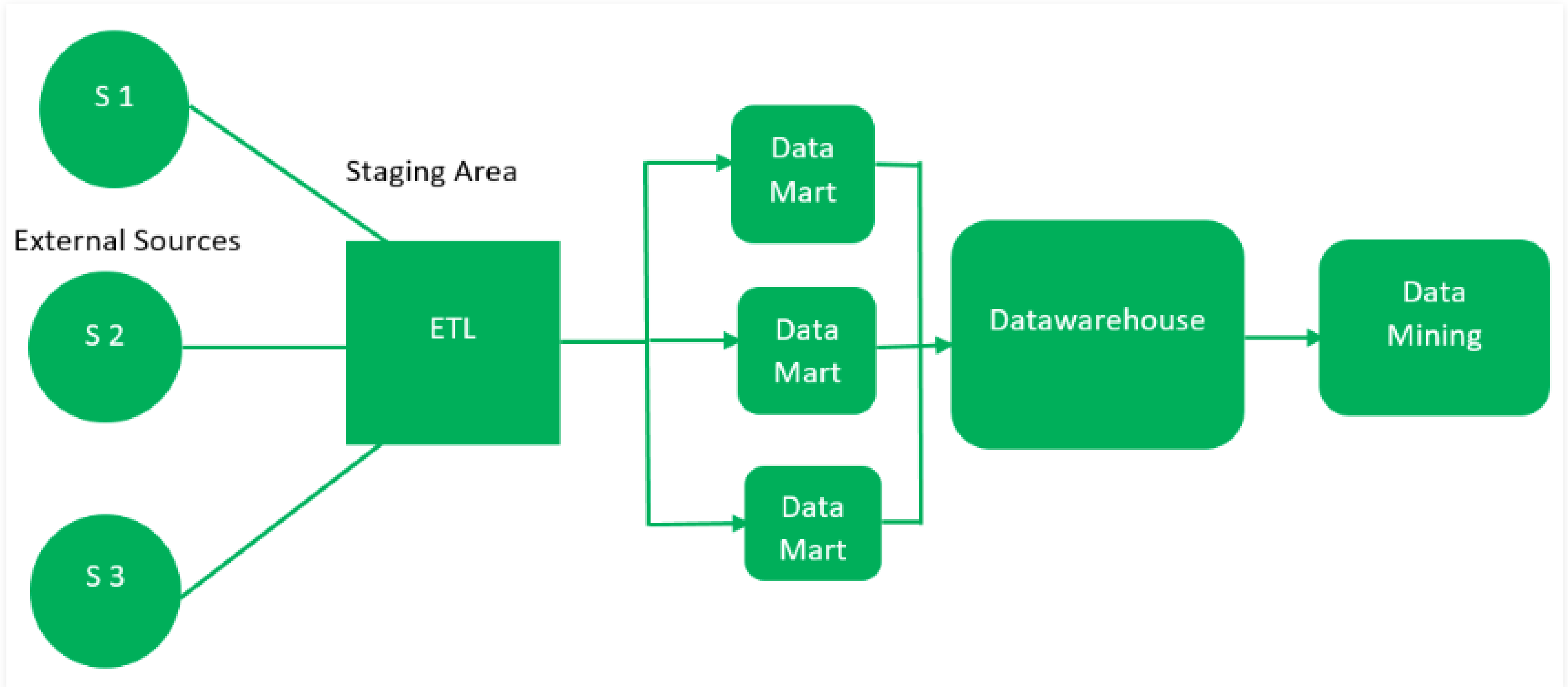
Advantages of Top-Down Approach –

1. Since the data marts are created from the datawarehouse, provides consistent dimensional view of data marts.
2. Also, this model is considered as the strongest model for business changes. That's why, big organisations prefer to follow this approach.
3. Creating data mart from datawarehouse is easy.

Disadvantages of Top-Down Approach –

1. The cost, time taken in designing and its maintenance is very high.

2. Bottom-up approach:



Advantages of Bottom-Up Approach –

1. As the data marts are created first, so the reports are quickly generated.
2. We can accommodate more number of data marts here and in this way datawarehouse can be extended.
3. Also, the cost and time taken in designing this model is low comparatively.

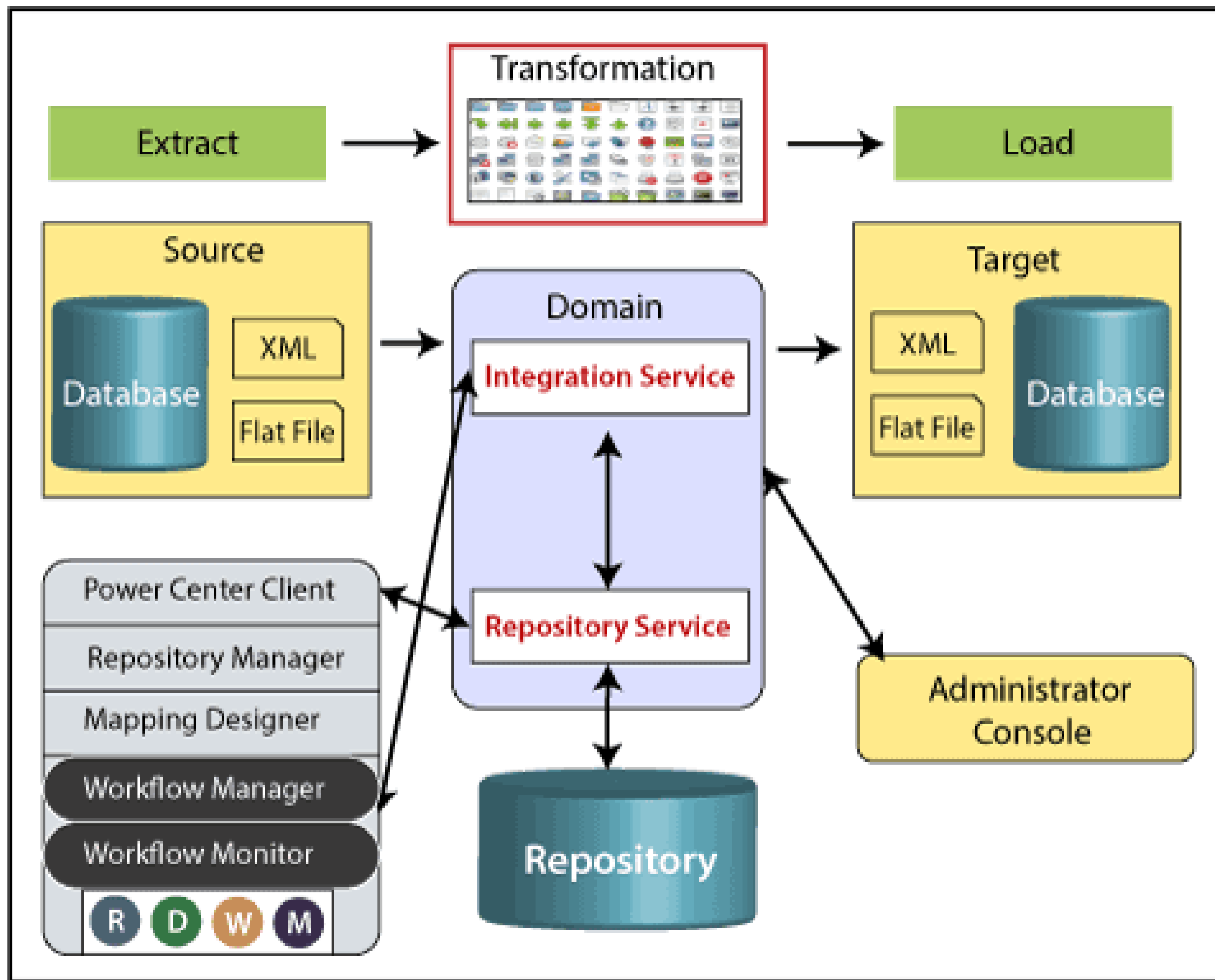
Disadvantage of Bottom-Up Approach –

1. This model is not strong as top-down approach as dimensional view of data marts is not consistent as it is in above approach.

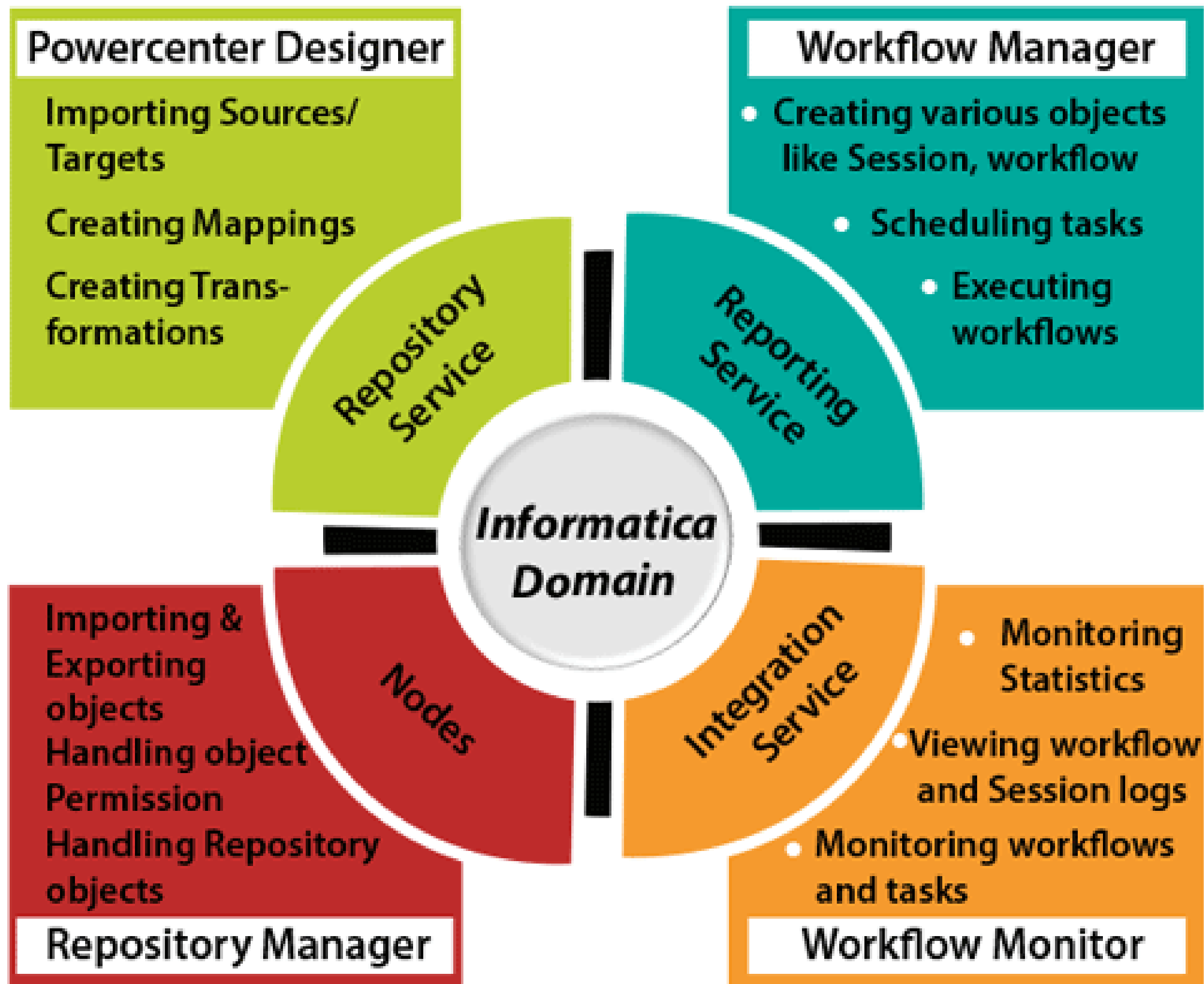
ETL (Extract, Transform, and Load) Process in Data Warehouse

ETL is a process that extracts the data from different source systems, then transforms the data (like applying calculations, concatenations, etc.) and finally loads the data into the Data Warehouse system. Full form of ETL is Extract, Transform and Load.

Architecture



Informatica PowerCenter



Informatica Domain



Domain



Logs



Monitoring



Reports



Security



Cloud

Services and Nodes

Connections

Domain Navigator

Actions ▾

- Domain_DESKTOP-QG6V1FB
 - node01_DESKTOP-QG6V1FB
 - repsrv_imran
 - intsrvc_imran
 - 961_License_DESKTOP-QG6V1FB_48541



Domain_DESKTOP-QG6V1FB

Overview

Total number of services: 2

Name

Type: All

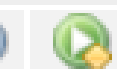
Status: All

Reset



PowerCenter Integration Service

1



intsrvc_imran



PowerCenter Repository Service

1



repsrv_imran



Nodes

1



node01_DESKTOP-

2 service processes