

THURSDAY, AUGUST 31, 2023

STAGING AREA

DOCUMENTATION

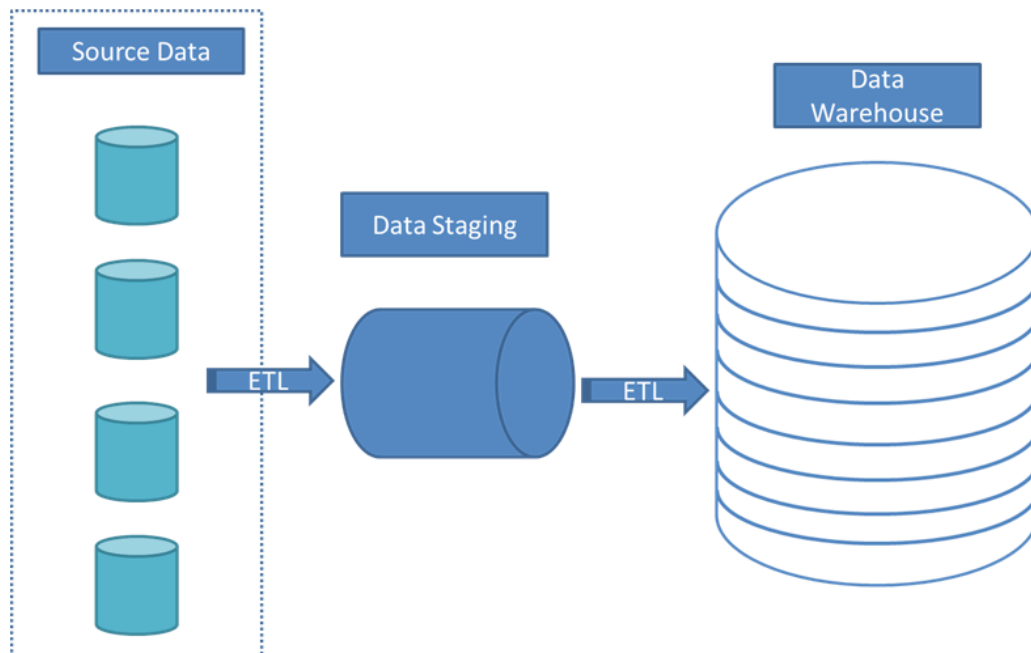
AYMANE SABRI

DATA DEVELOPER

I. Introduction to Data Warehousing

1. What Is a Staging Area :

Staging Area, also known as a **landing zone**, is an interim storage region used for Data Processing or for data preservation .



2. Why use a Staging Area :

There is no designated space available for testing **data transformations** in a direct data integration strategy, where the data is extracted, transformed, and then loaded to the new storage. Before being loaded to the target system, data from the source can be replicated, reformatted, and tested in a staging area in data warehouse.

3. What is the Role of a Data Staging Area in Warehouse ETL?

- A Data Warehouse Data Staging Area has a single purpose: to hold raw data from Source Systems and to provide a space for transitory tables created during the transformation process.
- The function of the Data Staging Area varies depending on the design methodology and ETL toolset, but the Target Audience is always the ETL process and the Data Engineers who are responsible for designing and maintaining the ETL.

4. What are the Advantages of a Staging Area?

- **Recoverability .**
- **Backup .**
- **Backup .**

5. What are the Disadvantages of a Data Staging Area?

- If the transformation process slows down, the staging procedure will come to a halt as well.
- There might be some variation in the use of disc space because the data must be dumped into a local area.

6. Data Warehouse with Data Marts & Staging Areas

