

ETL also makes it possible to migrate data between a variety of sources, destinations, and analysis tools. As a result, the ETL process plays a critical role in producing business intelligence and executing broader data management strategies.

## **STEP 1: EXTRACTION**

Few businesses rely on a single data type or system. Most manage data from a variety of sources and use a number of data analysis tools to produce business intelligence. To make a complex data strategy like this work, the data must be able to travel freely between system and apps.

Before data can be moved to a new destination, it must first be extracted from its sources.

## **STEP 2: TRANSFORM**

During this phase pf the ETL process, rules and regulations can be applied that ensure data quality and accessibility. You can also apply rules to help your company meet reporting requirements. The process of data transformation is comprised of several subprocess.

- CLEANSING-inconsistencies and missing values in the data are resolved.
- STANDARDIZATION formatting rule are applied to the data set.
- DEDUPLICATION redundant data is excluded or discarded.
- VERIFICATION unusable data is removed and anomalies are flagged
- SORTING data is organized according to type
- OTHER TASKS- any additional/optional rules can be applies to improve data quality.

Transformation is generally considered to be the most important part of the ETL process.

## **STEP 3: LOADING**

The final step in the ETL process is to load the newly transformed data into a new destination.

Incremental loading – A less comprehensive but more Full loading – In a ETL full loading scenario, everything manageable approach is incremental loading. that comes from the **TPYES** Incremental loading compares transformation assembly line goes into new, unique records in incoming data with what's already on hand, and only the data warehouse. Though produces additional records if there may be times this useful new and unique information is for researches purpose, full found. loading produces data sets that grow exponentially and can quickly become difficult to maintain.