



Extract:

In this stage, raw data is extracted from applicable, appropriate sources and moved into the staging area. Some validation may be done during the extraction stage, for example, checking data types.



Transform:

Most raw data is not usable for analysis and requires transformation. Examples of this stage may include filtering or narrowing the data fields, data standardization, data conversion, transposing rows and columns, data cleaning, and merging data.

Load:

The last stage of ETL is loading the transformed data into a warehouse database. This may include exporting CSV dataframes or populating relevant tables, for example. Now the data is ready to be analyzed.

