

A large yellow hexagon containing the text "ETL" in white, "EXTRACT" in black, "TRANSFORM" in black, and "AND LOAD" in black, all in a bold, sans-serif font.

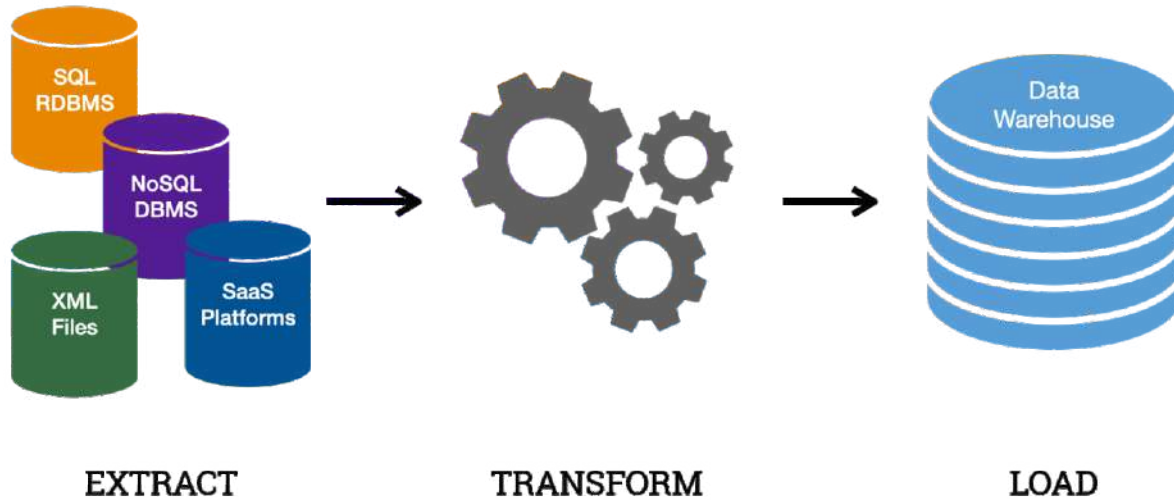
ETL
EXTRACT
TRANSFORM
AND LOAD

A smaller blue hexagon containing the text "Data Sheet" in white, in a bold, sans-serif font.

Data
Sheet

Extract, Transform, and Load (ETL)

ETL stands for Extract, Transform, and Load. These three database functions are combined into one tool to pull data out of one database and place into another one.



Extract

Extract is the process of reading data from a database. It connects to a data source and collect the data needed, which can be from one or multiple and different types of sources. The objective is to retrieve data with as little resources as possible without impacting the data source performance, response time, or any kind of locking.

Transform

Transform is the process of converting the extracted data into a standard format by executing a set of rules or functions. It is prepared and cleaned, to be placed into the set database location. This process may take a couple of hours to several days depending on the size and quality of the data source, but also on the business and technical requirements of the target data warehouse.

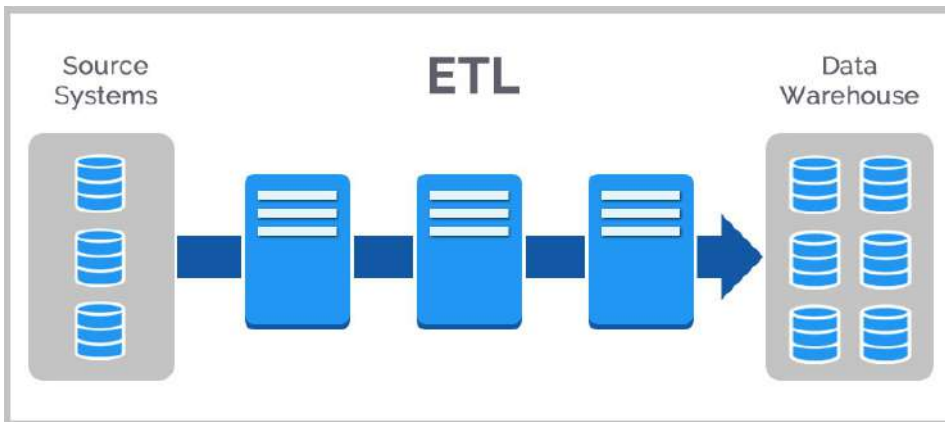
Load

Load is the process of writing the data into the target database. It will import the extracted and cleaned data into the set target.
Initial Load — populating all the Data Warehouse tables.
Incremental Load — applying ongoing changes as when needed periodically.
Full Refresh — erasing the contents of one or more

How ETL Works

The data is extracted from one or more sources and copied into the data warehouse. When dealing with large volumes of data and multiple source systems, the data is consolidated. ETL is used to migrate data from one database to another and is often the specific process required to load data to and from data marts and data warehouses but is a process that is also used to convert large databases from one format or type to another.

After extracting data, ETL uses business rules/functions to transform the data into new formats, automating the scripts that run behind the scenes. Structured query language is the most common method used to access and transform data within a database. Data mapping is part of the transformation process, that provides detailed instructions to an application about how to get the data needed to process and describes which source field maps to which destination field. The transformed data is then loaded into the target location.



ETL is an important part of today's business intelligence processes and systems. Today, businesses find themselves producing and storing huge amounts of data every day. However, the variety of data sources and volume can make it harder to work on in-turn keeping the companies from reaching the potential of this information. With Soft Tech, you won't need to struggle with complex ETL processes. We can cleanse your data, transform it as per your business requirement, and load it to the target database so that you can use it to make better & informed decisions for your business.

Soft Tech Group provides ETL services to all industries for their data needs and specialize in healthcare data management. Our Data Integration and ETL experts have a great deal of experience in building data warehousing and data migration solutions.

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Any Integration

Any Storage, Any Format,
Any Data Source.

We will access it!

End-to-End Security

Your information will be
stored in our high-speed and
secure data warehouse that
is protected 24/7.

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Feel free to contact us for ETL, Data migration and Integration services.

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