ETL stands for Extract, Frans form, Load. It is a data integration process that moves data from one or more sources into a destination system, usually a data warehouse

Extract: Gather data from various sources (databases, APIs, file. etc.)

Transform: Clean formal & structure the data for analysis (e.g. fillering joining, aggregation)

Load: Move the transformed data into a target system Colorta to Colora warrhouse, database, on data lake J.

EIL Pipleline is an automated sequence of processes that perform the EIL steps. It ensures data flows reliably from source to destination & can be built using tools lik Apache airflow, Talend, Alus Glue or custom scripts.

Types of ETL piplile:

1) Batch ETL piplines:

- · Run at scheduled intervals.
- . Good for large volumes of data processed periodically,
- 2) Real-Time or Streaming ETI pipelines:-
 - . Useful for real-time dashbounds, froud detection or IOT data.
- 2) Cloud Native ETL pipline:
 - · Buid on cloud platetom (AWS Glue, ADF)
 - · Scalable & integrated with other cloud services.

· Use open-source tools like Apache Nifi, Airflaw, Talend
· Cost-Effective with high Flexibility. Open studio.
Data is loaded into destination first, the transform there.
· Common with modern cloud data warehouse like sno oflake or highwey

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