1 NAI - N 1-1-

() ETL:-

It stands for extract, transform and load. The ng it into a format switable for analysis or storage and i) Extracti-

sources such as database, API's and other system.

ii) Iransformi-

The next step is to transform the extracted data into a format suitable for analysis or storage.

iii) (ood:-

Inefinal step is ETL is to lood the transformed data into the target dota worehouse orstorage system.

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2 3 Tier Architecture in DE:-The 3 tier architecture is a common design pattern in data engineering that separate the application into 3 mein agical layer.

i) Presentation layer:-

The presentation layer is the top most layer, which is responsible for presenting data to the end-user in a human readable format.

ii) Application layer:.

It is middle layer, which contain business logic and controls the flow of data between the presentation layer and the data storage layer.

iii) Data storage layer:-9+ is bottom layer which stores the data required by the application layer of include data bases datamere house and data take

iii) Historical Load:

energy that was consumed in a particular location of electrical energy that was consumed in a particular location of electrical aspecific time period in the past, at is a term commonly used in medical of electrical engineering and power system analysis to commonly understand and predict the energy consumption patterns of a particular region-

iv) Incremental (1880) is a process of a politing a data ware house or database with new or modified data. In stead of performing a full data refresh, which can be time-consuming and resource-intensive invenertal coacting only update the data that has changed since

the last (600).

If such land, also known on full dost a refresh, is a process

of loading all the data from the source system into

of loading all the data from the source or database

atarg it system such as dota warehouse or database

vi) In data engineering ELT stand for Extract, was and transform. It is dada integration process where data transform. It is dada integration process when was data into a first extracted from various sources then was dead into a target data store ore warehouse.