Abstract

ETL is a type of data integration that refers to the three steps (extract, transform, and load) used to blend data from multiple sources. It's often used to build a data warehouse. During this process, data is taken (extracted) from a source system, converted (transformed) into a format that can be analyzed, and stored (loaded) into a data warehouse or other system. FME has a rich data model designed to implement ETL. FME provides tremendous transformation functionality, resulting in output that can be much greater than the sum of the inputs, and allowing data to be transformed from one type to another. The current paper uses FME workbench to implement the concept of ETL using a case study where a private firm wants to integrate attribute and spatial information regarding its employee, filter the unnecessary information, and finally implement a business query regarding Monthly Travelling Allowance. The results establish ETL and FME as interdisciplinary technological domains and backbone of the data warehouse architecture.

References


12. Microsoft Office Home: https://www.office.com


14. KML OGC:www.opengeospatial.org/standards/ kml

Index Terms

Computer Science
Information Sciences

Keywords

Extract, Transform, and Load (ETL), Feature Manipulation Engine (FME), Keyhole Markup Language (KML), Attribute.