ETL Workflow: OLTP to OLAP Data Migration

OLTP SOURCE SYSTEM
(Transactional Database - Normalized 3NF Structure)

CUSTOMERS	CATEGORIES	PRODUCTS	SUPPLIERS
ORDERS	ORDER_ITEMS	PAYMENTS	SHIPPING

EXTRACT

TRANSFORMATION LAYER

1. Data Extraction
2. Data Cleaning & Validation
3. Aggregation & Calculation
4. Key Mapping (Surrogate Keys)
5. Denormalization & Formatting

LOAD

OLAP WAREHOUSE (Star Schema)

DimTime	DimCustomer	DimProduct	DimCategory

DimSupplier	DimPaymentMethod	FactSales

**ANALYTICS
&
REPORTING**

BUSINESS INTELLIGENCE LAYER

Sales Performance Cube
Customer Behavior Cube
Supplier Performance Cube

Dashboards • Reports • Analytics • Insights