



Data Warehousing

Database Integration



Data Warehousing



OLTP Databases

A database that processes standard business transactions like an ERP or CRM. Tends to involve a mix of reads and writes.

OLAP Databases

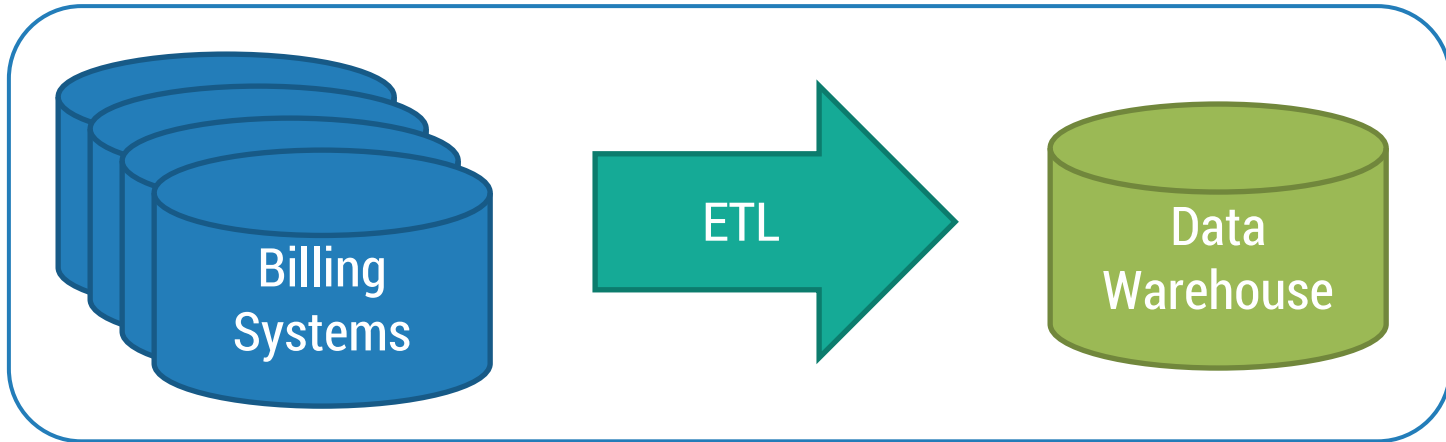
Focused on reporting and analytics. OLAP workloads involve database reads over large datasets (like querying the number of orders per day over the last 12 months)



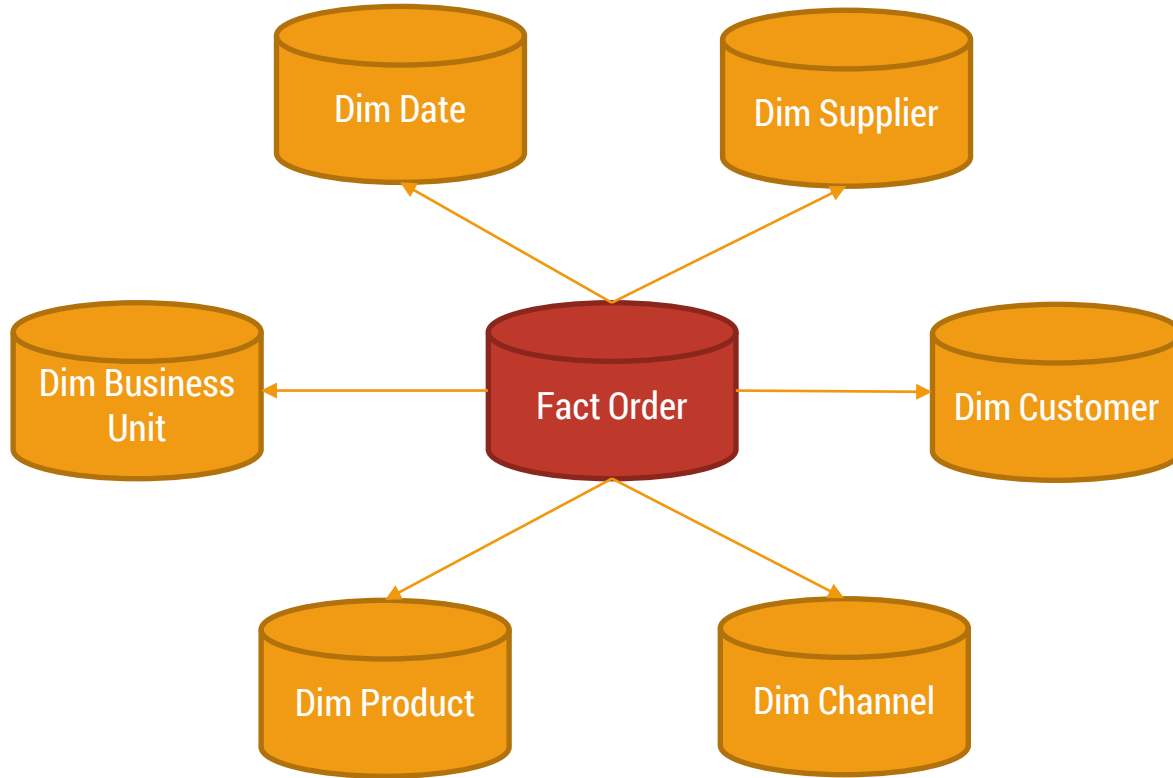
Data Warehouses for Analytics

Annual Revenue Comparison

Channel	2019 Revenue (USD)	2020 Revenue (USD)	Change	%
Direct to Consumer	1,099,912	1,826,741	726,829	66%
Retailers	5,192,881	7,261,812	2,068,931	40%
Distributors	3,299,184	1,928,711	(1,370,473)	-42%
Total	9,591,977	11,017,264	1,425,287	15%



Star Schema



Data Lake Architecture

