

Data warehouse schema design

Dimensional modeling the Kimball group way

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Data usage rate

OLTP:

One thing at a time
Optimized for inserts and updates

OLAP:

Aggregations and questioning of many things at a time Optimized for heavy reads

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What is a dimension?

By what we measure things?
The who, what, when, where etc. of things.

Examples: dates, products, countries

Dimension tables:

Customer dimension	n
customer_key (PK)	
name	
country	
city	
age	

Date dimension	
date_key (PK)	
date	
year	
month	
day	





Star schema





Surrogate key

The dimensions PK should be in control of the OLAP system.

Don't use a PK from an operational system:

- Dimensions might change over time, to track changes the same one represented in the operational system might have multiple rows.
- Dimensions may come from multiple sources, synchronizing the PK system is an unnecessary headache.
- Decouple the OLTP system from the OLAP system.















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