DW design

With Indyco Builder

What is Indyco Builder

Indyco Builder is a commercial software from Iconsulting

- Supports the conceptual design of a DW
- Provides DFM validation functionalities and evaluation metrics.
- Provides a web GUI for DW exploration
- Automatically generates the logical model (not supported by edu license)
- Reverse-engineering (not supported by edu license)

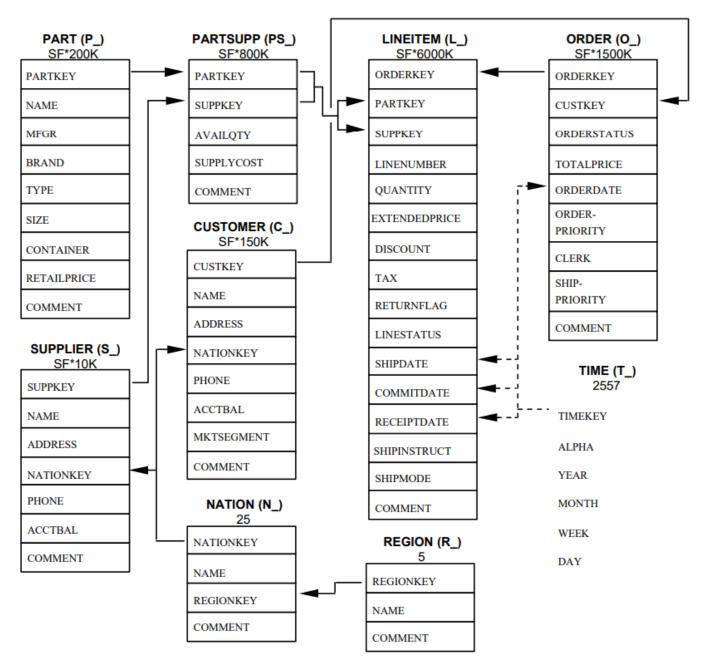
(DEMO)

What we are going to do

Define the conceptual (DFM) and logical models

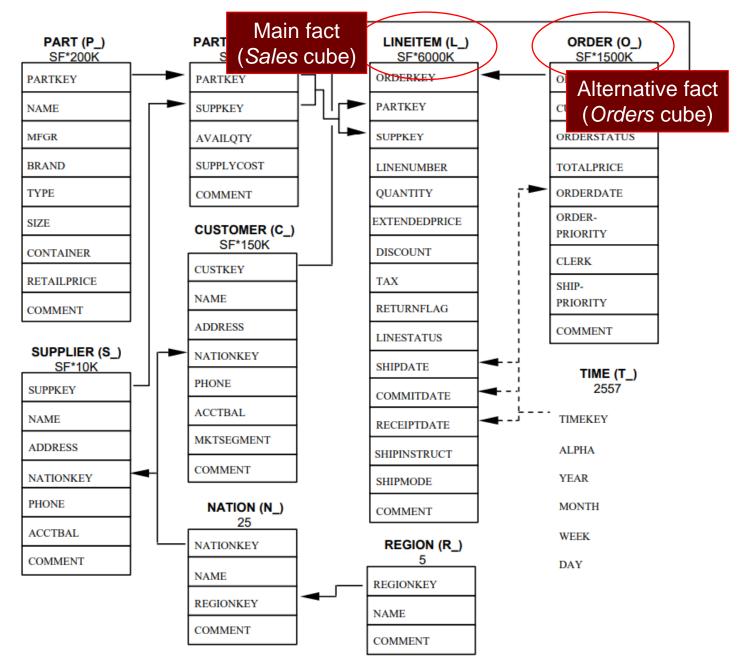
Case study: TPC-D

- The parentheses following each table name contain the prefix of the column names for that table
- The arrows point in the direction of the one-to-many relationships between tables
- Dashed lines represent optional tables and relationships
- The number/formula below each table name represents the cardinality of the table

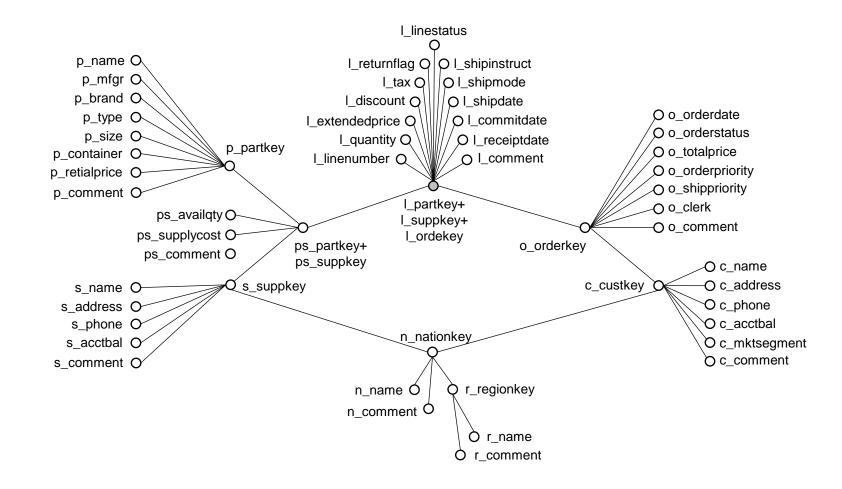


Case study: TPC-D

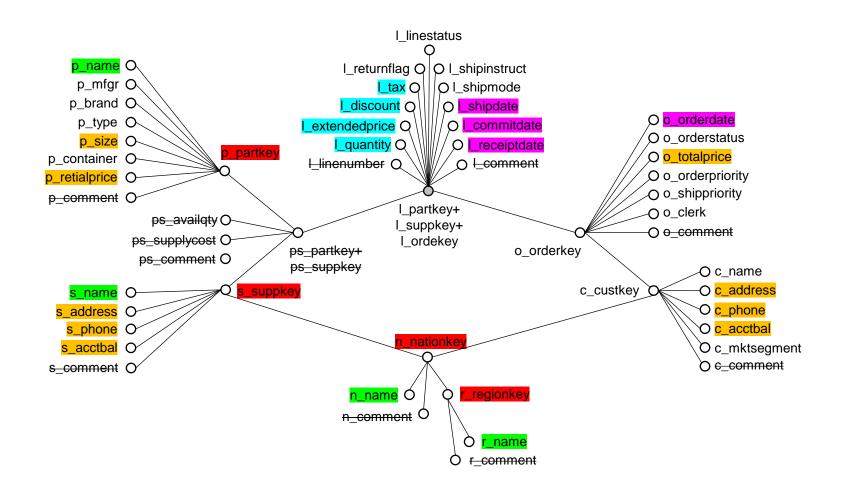
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Attribute tree (Sales)

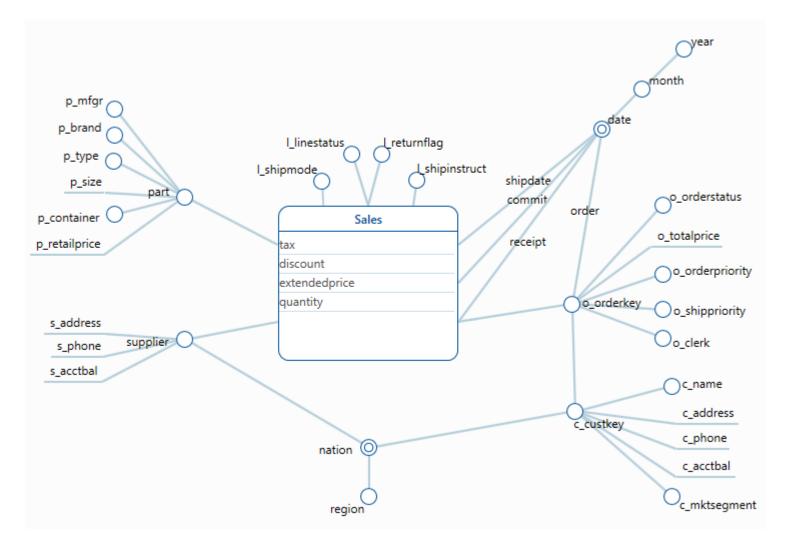


Attribute tree (Sales)

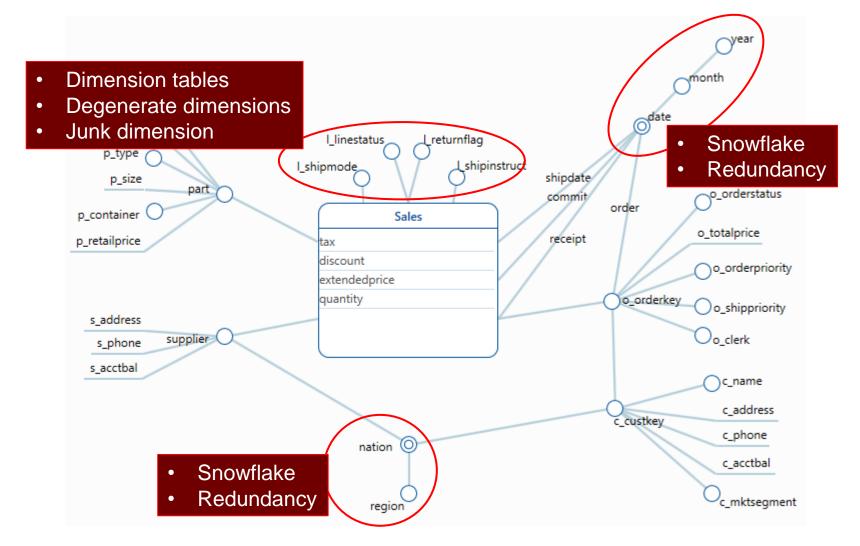


LEGEND
not interesting
descriptive
key swapped
measure
shared

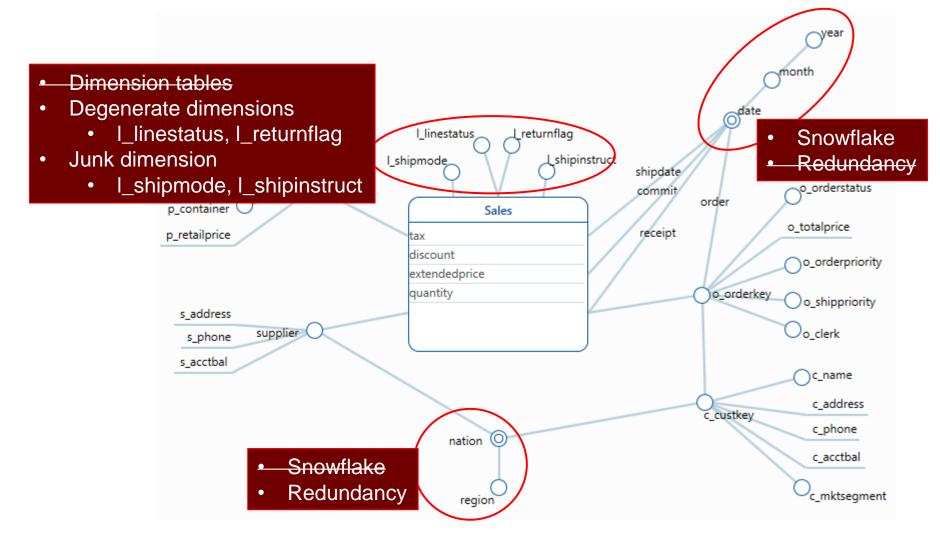
Conceptual design (Sales)



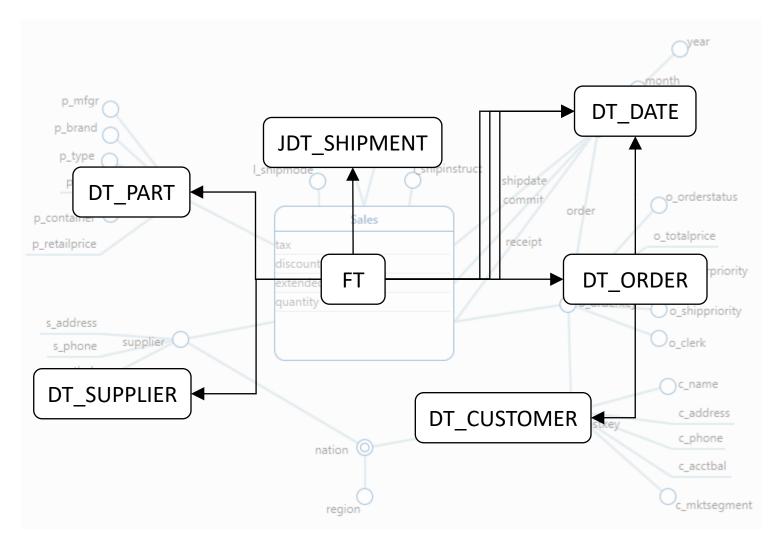
Logical design (Sales)



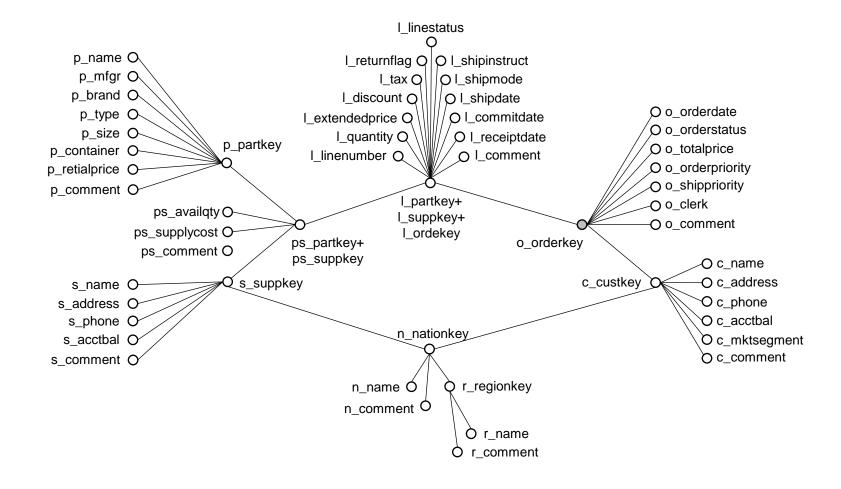
Logical design (Sales)



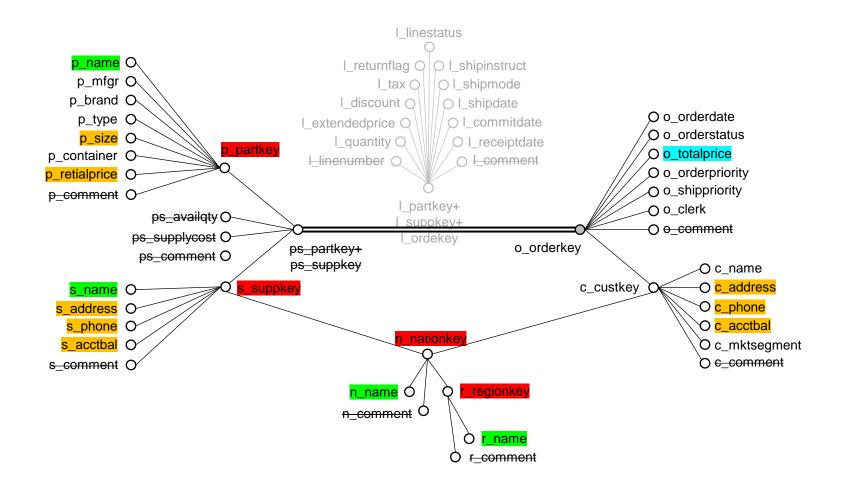
Logical design (Sales)



The attribute tree (Orders)

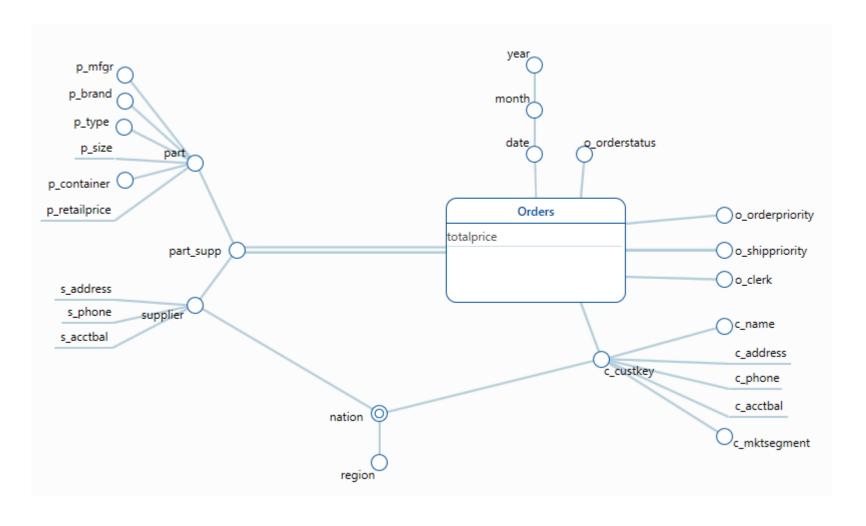


The attribute tree (Orders)

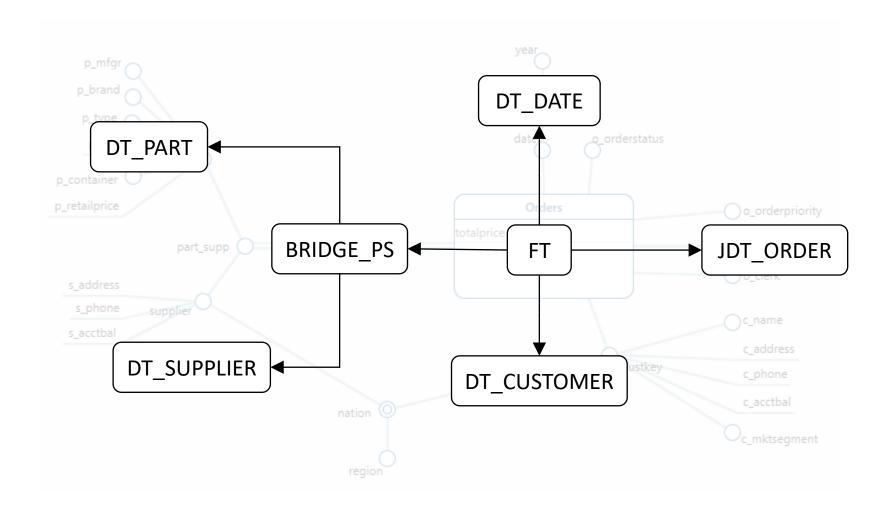


LEGEND
not interesting
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Conceptual design (Orders)



Logical design (Orders)



Physical design

Tables have already been created for everyone

DDL scripts available in Virtuale (ddl_sales.sql and ddl_orders.sql)

No DDL necessary for the exam