# Data modelling techniques



- 1. Flat Model
- 2. Hierarchical Model
- 3. Network Model
- 4. Relational Model
- 5. Star Schema
- 6. Snowflake Schema
- 7. Star-flake Schema
- 8. Galaxy Schema

8. Galaxy Schema

7. Star-flake Schema



# Flat Model



### Single file or table

Patient Id	Name	D.o.B	Gender	Phone	Doctor Id	Doctor	Room
134	Jeff	4-Jul-1993	Male	7876453	01	Dr Hyde	03
178	David	8-Feb-1987	Male	8635467	02	Dr Jekyll	06
198	Lisa	18-Dec-1979	Female	7498735	01	Dr Hyde	03
210	Frank	29-Apr-1983	Male	7943521	01	Dr Hyde	03
258	Rachel	8-Feb-1987	Female	8367242	02	Dr Jekyll	06

258	Rachel	8-Feb-1987	Female	8367242	02	Dr Jekyll	90

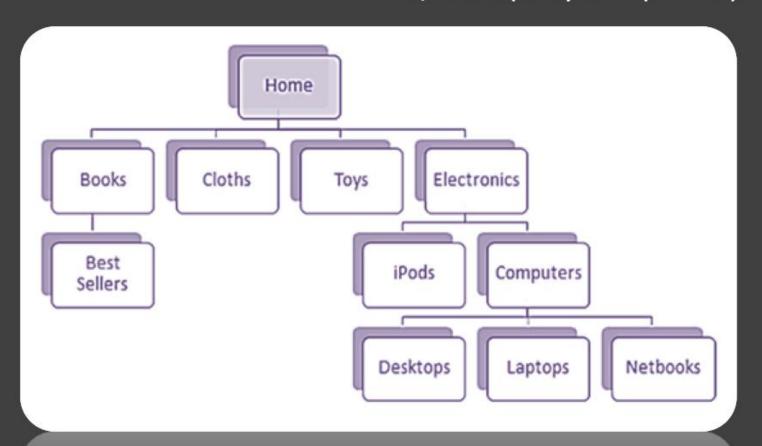








Parent/Child (Only one parent)



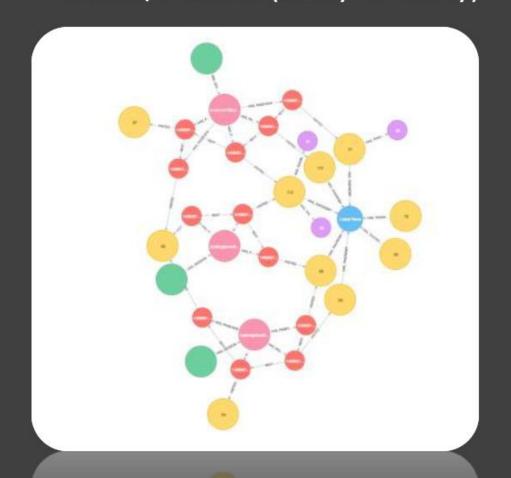




## **Network Model**



Nodes/Vertices (many-to-many)



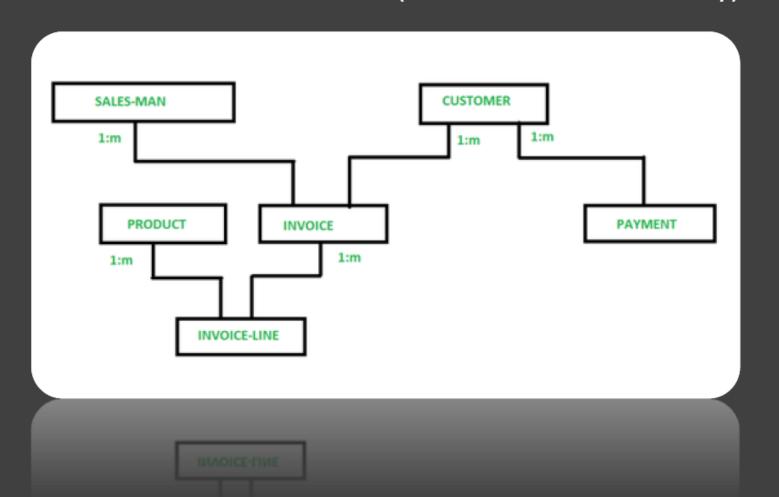








Relations (Normalized one-to-many)



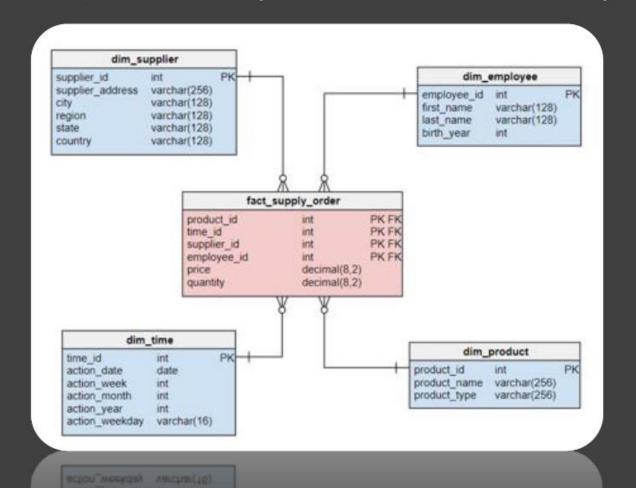








#### Facts/Dimensions (Denormalized dimensions)



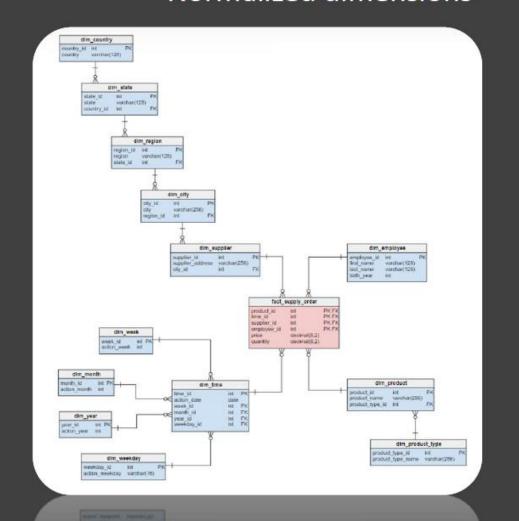








#### Normalized dimensions



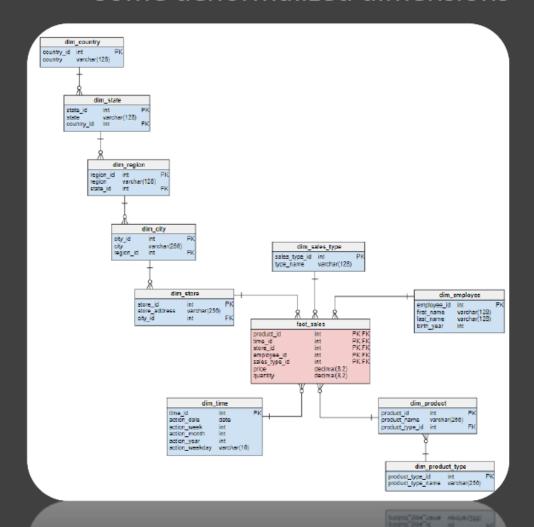








#### Some denormalized dimensions



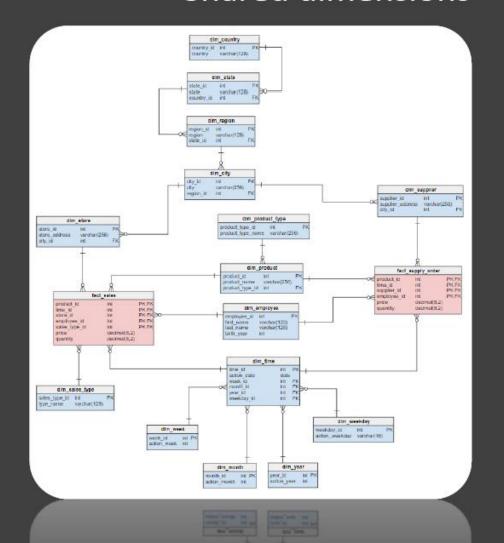








#### **Shared dimensions**







### Thanks for reading!

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