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

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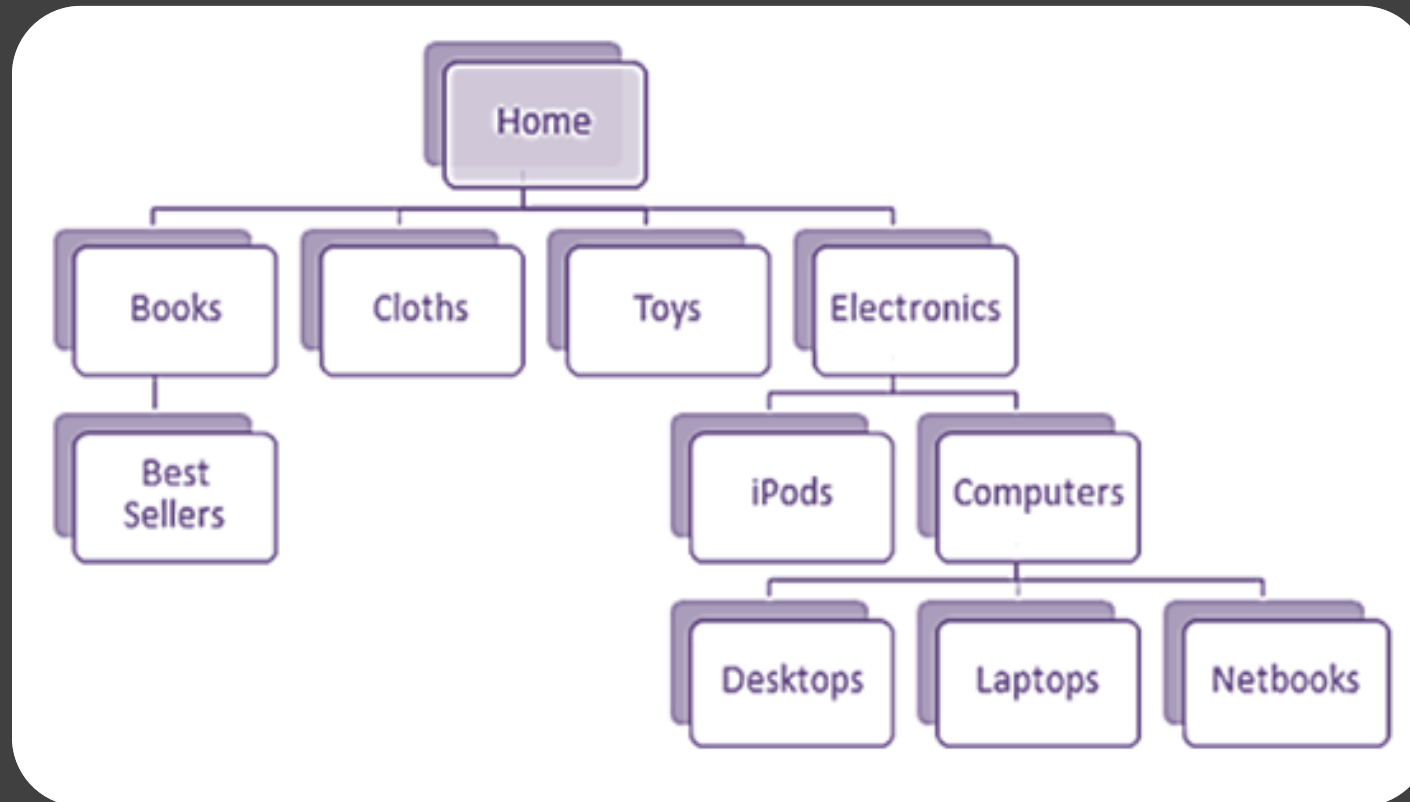Data Engineering Instructor

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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

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Hierarchical Model

Parent/Child (Only one parent)
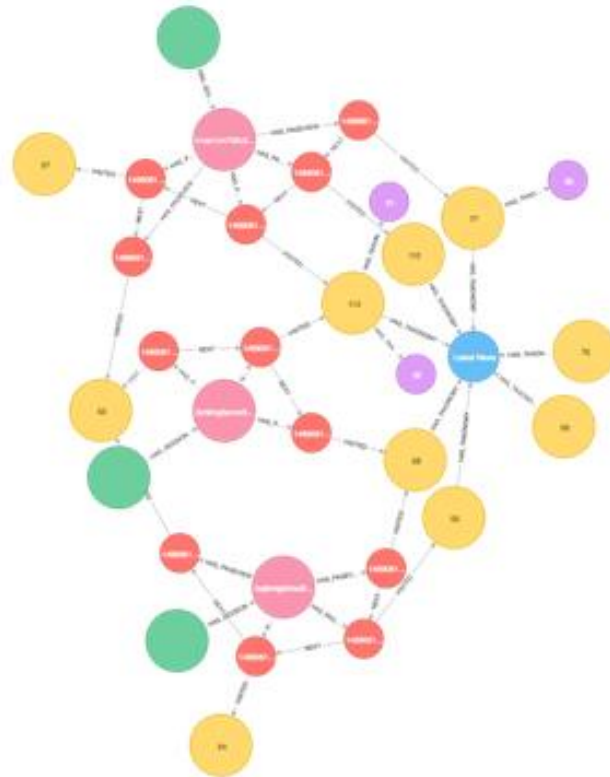

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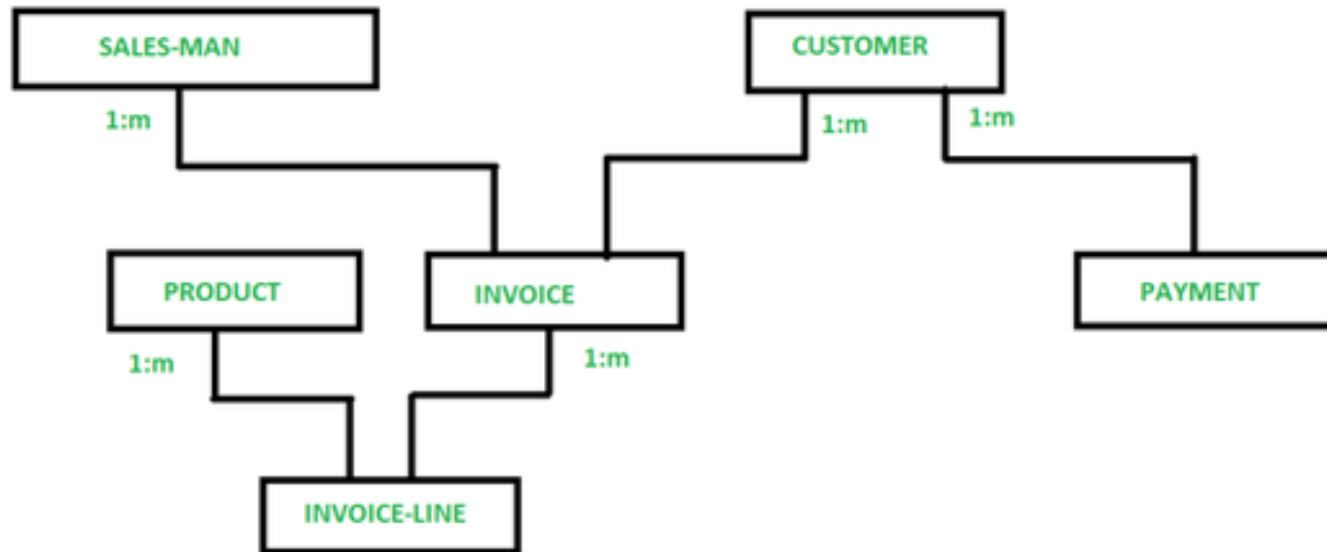
Network Model

Nodes/Vertices (many-to-many)

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Relational Model
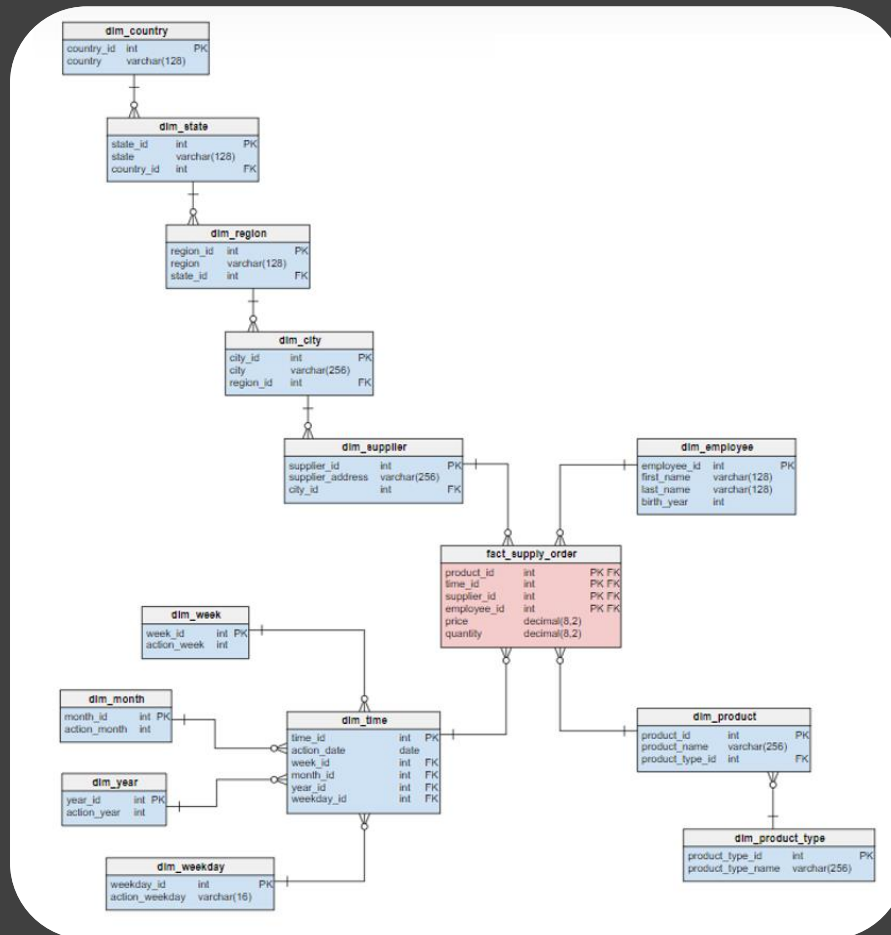
Relations (Normalized one-to-many)

Star Schema
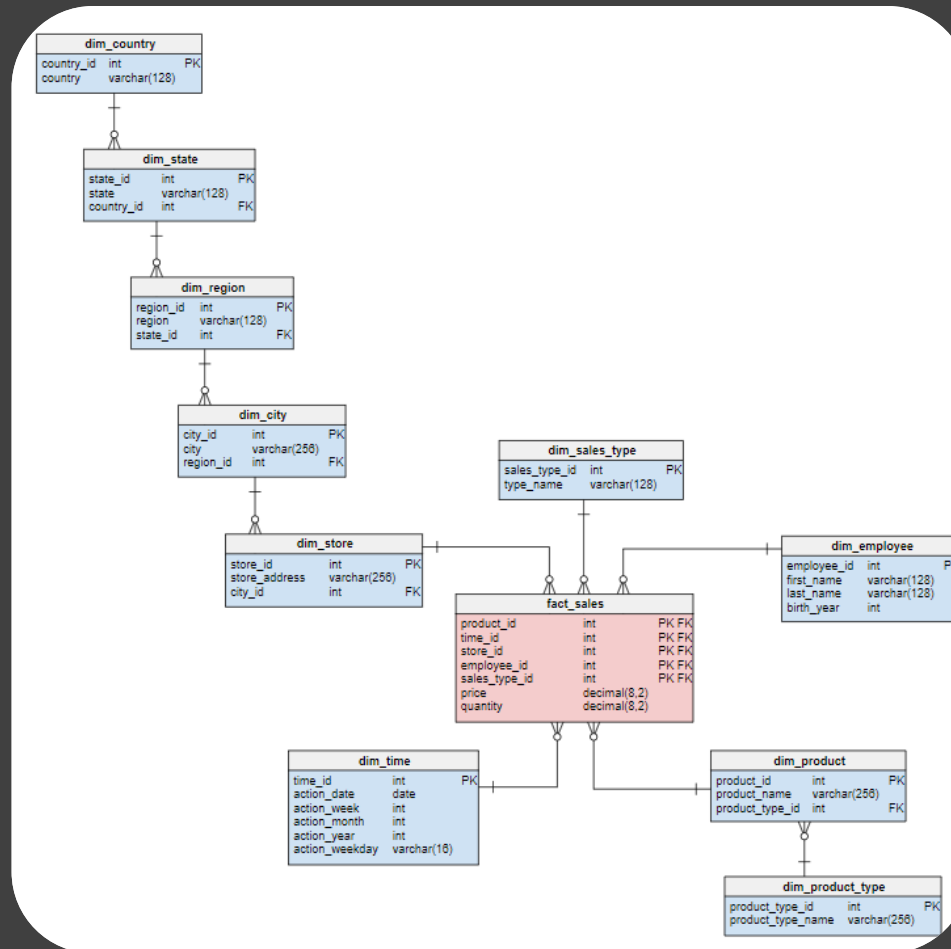
Facts/Dimensions (Denormalized dimensions)

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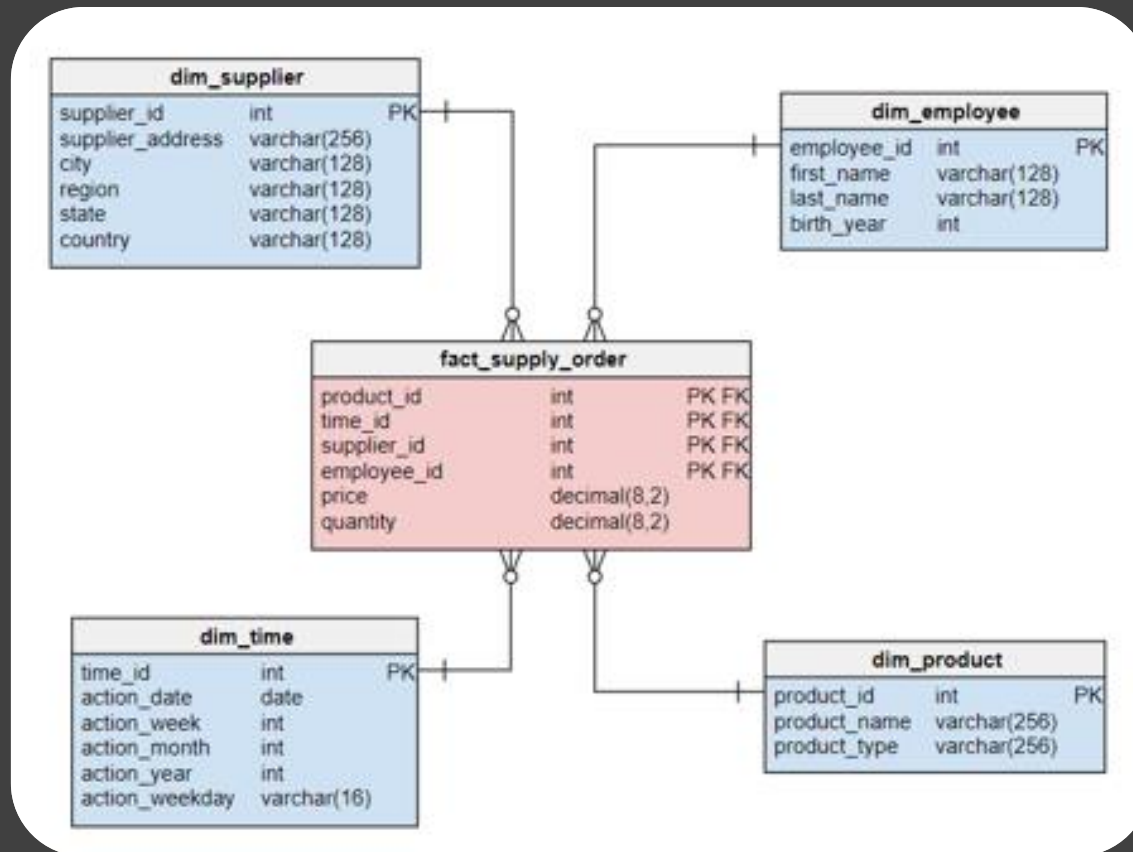
Snowflake Schema

Normalized dimensions

Star-flake Schema

Some denormalized dimensions

Galaxy Schema

Shared dimensions

Thanks for reading!

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