



(Big) Data Engineering In Depth

From Beginner to Professional

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The Definitive Guide to Big Data Engineering Tasks

Videos classification

Watching Method / Audience	Computer	Mobile/Tablet	Just listening
Developer	●		
DevOps	●		
Business	●		

Table: Video classification

- The green circle ● means short video.
- The blue circle ● means medium video.
- The red circle ● means long video

Dimensions Types: Swappable Dimensions

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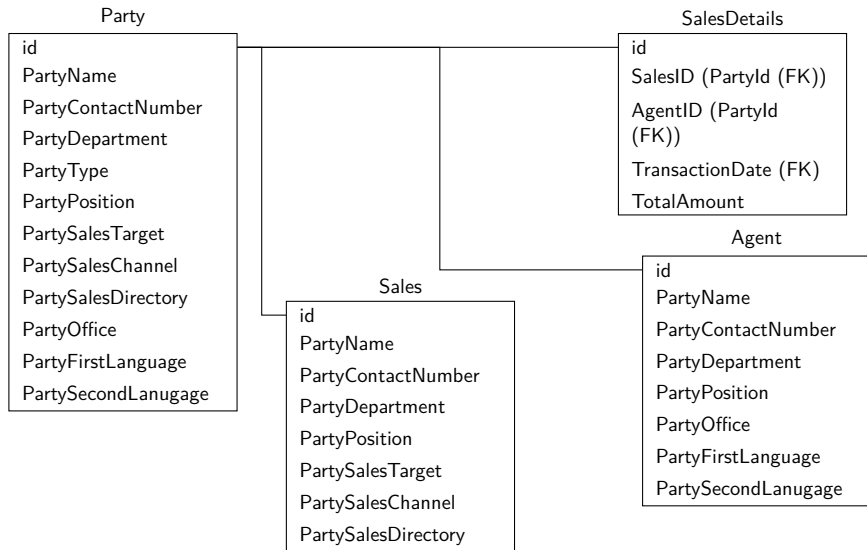
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 - It has different target users and sometimes we restrict the users to access the primary dimension and only access the swapped version to restrict the data without needs to show the whole primary attributes.

Swappable Dimensions



Implementation

- Direct join between Fact and Dimension with filter based on PartyType (run-time). In this case Party includes some empty columns based on the type.
- Logical views each view has its own number of columns and rows based on the type details.
 - Pros: Easy for (managing, implementation) with consistent views.
 - Cons: Performance and manage the authorization per view.
- Physical tables (Types & Sub-types).
 - Pros: Performance, better design.
 - Cons: Data redundancy, key could be duplicated (when join with fact), increase in data size, and ETL headache.

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✍️ ➡️ Date Dimension 20191012 can be used for different purpose order delivery date, expire date but different meanings.
- **Swappable** different version from the primary dimension each version has its own attributes and meanings based on the use case (different meaning based on the category).
✍️ ➡️ party id dimension has different version sales, agent, employee and all of them sub-types of the party but used for different purpose in different facts.