

Overview of Data Model

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We will be using retail data model for this section. It contains 6 tables.

- Table list
 - orders
 - order_items
 - products
 - categories
 - departments
 - customers
- **orders** and **order_items** are transactional tables.
- **products**, **categories** and **departments** are non transactional tables which have data related to product catalog.
- **customers** is a non transactional table which have customer details.
- There is 1 to many relationship between **orders** and **order_items**.
- There is 1 to many relationship between **products** and **order_items**. Each order item will have one product and product can be part of many order_items.
- There is 1 to many relationship between **customers** and **orders**. A customer can place many orders over a period of time but there cannot be more than one customer for a given order.
- There is 1 to many relationship between **departments** and **categories**. Also there is 1 to many relationship between **categories** and **products**.
- There is hierarchical relationship from departments to products - **departments** -> **categories** -> **products**