



Data warehousing

Phase 1

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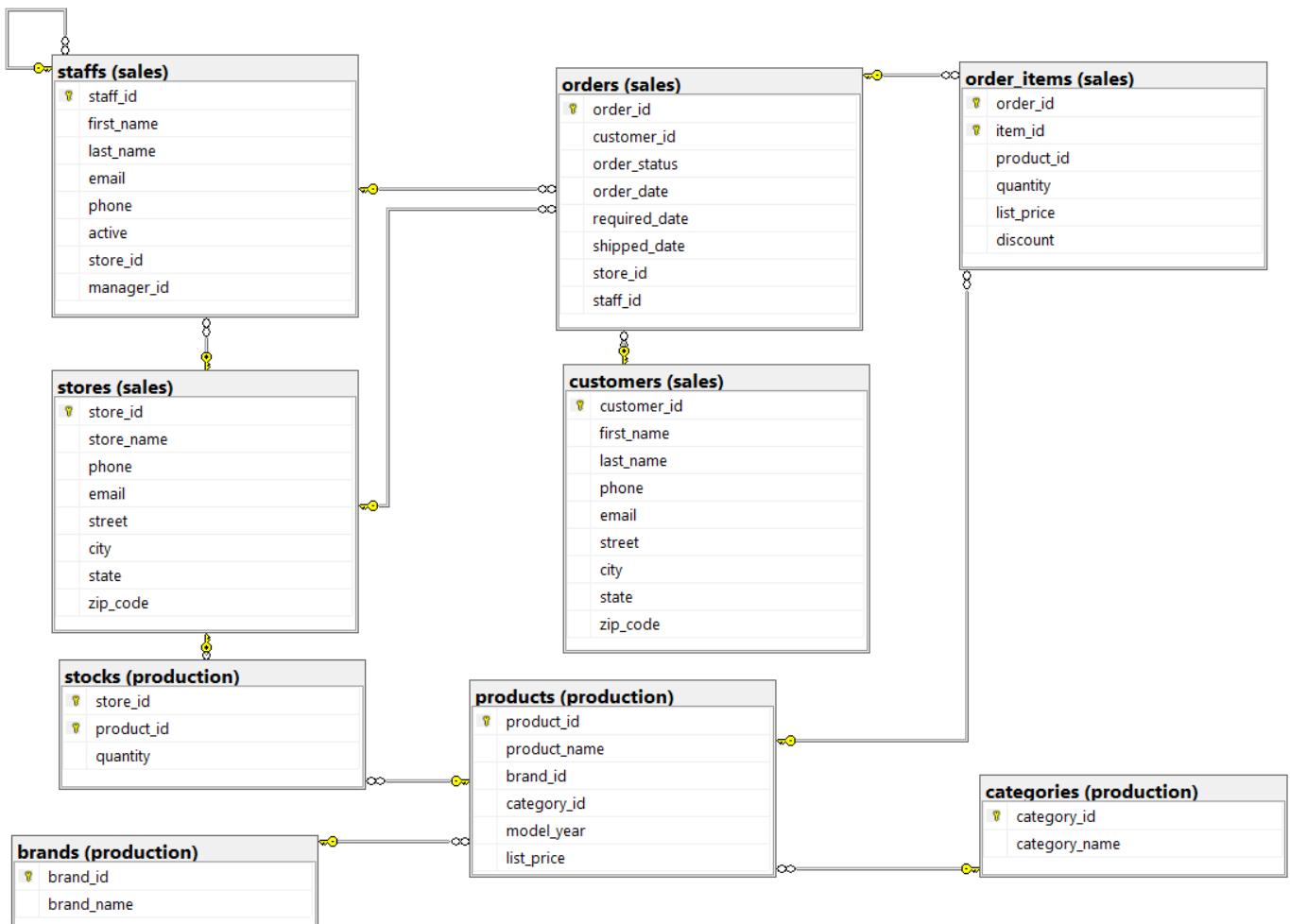
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- Dataset URL : https://drive.google.com/file/d/10Ikpr_T8wgcFru-WgUABaAecq3VYjvKY/view?usp=share_link
- ERD for the database :





Dimensional model.

- **The business processes that we will model:**
 - o Analyzing sales data to gain insights into product performance, store performance, and customer segments.
 - o Managing inventory levels and stock movements across multiple stores.
 - o Segmenting customers based on demographics, purchase history, and other factors to improve marketing and sales efforts.
 - o Tracking employee performance to identify training needs and improve workforce management practices.
 - o Creating reports and dashboards to gain insights into revenue, expenses, and profitability.
- **Example statements for the DW model:**
 - o Sales of a certain brand from each store last month.
Number of orders that every staff has done last week.
 - o Number of customers who bought a certain brand from all stores last year.
 - o Number of different categories that we have had it in our Stocks last year.
 - o The number of orders that are requested from each customer through each staff in each store on daily base .

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- **Define the dimensions.**
 - o Time Dim : Includes information about the date of the sale such as day, month, year.
 - o Staffs Dim : Includes information about the order date , first Name, last name , phone, email, and statues.
 - o Store Dim: Includes information about store name ,phone , email, city, street, state, and ZIP Code.
 - o Customer Dim: Includes information about first Name, last name , phone, email, city, street, and state.
 - o Order Dim: Includes information about customer who take order and order status ,order date,required date ,shipped date , store id, staff id
 - o Product Dim: Includes information about product name, brand id ,category id , model year ,list price

- **Define the measures that will appear in the fact tables.**
 - o Orders Fact Table
 - Order Num: the number of orders that are requested.
 - o Customers_brands Fact table:
 - Customer num: number of customers who bought a certain brand from all stores last year.
 - o Staff Orders Fact table:
 - Staff orders num: Number of orders that every staff has done last week.

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