



Data warehousing

Phase 1

Submitted to TA\ Alaa Adel

Name	ID
Abdallah Saleh	20200302
Abdallah Mahmoud	20200307
Abdeltwab Mohamed	20200274
Nagi mohamed	20200580
Nour eldeen mahmoud okbi	20200608

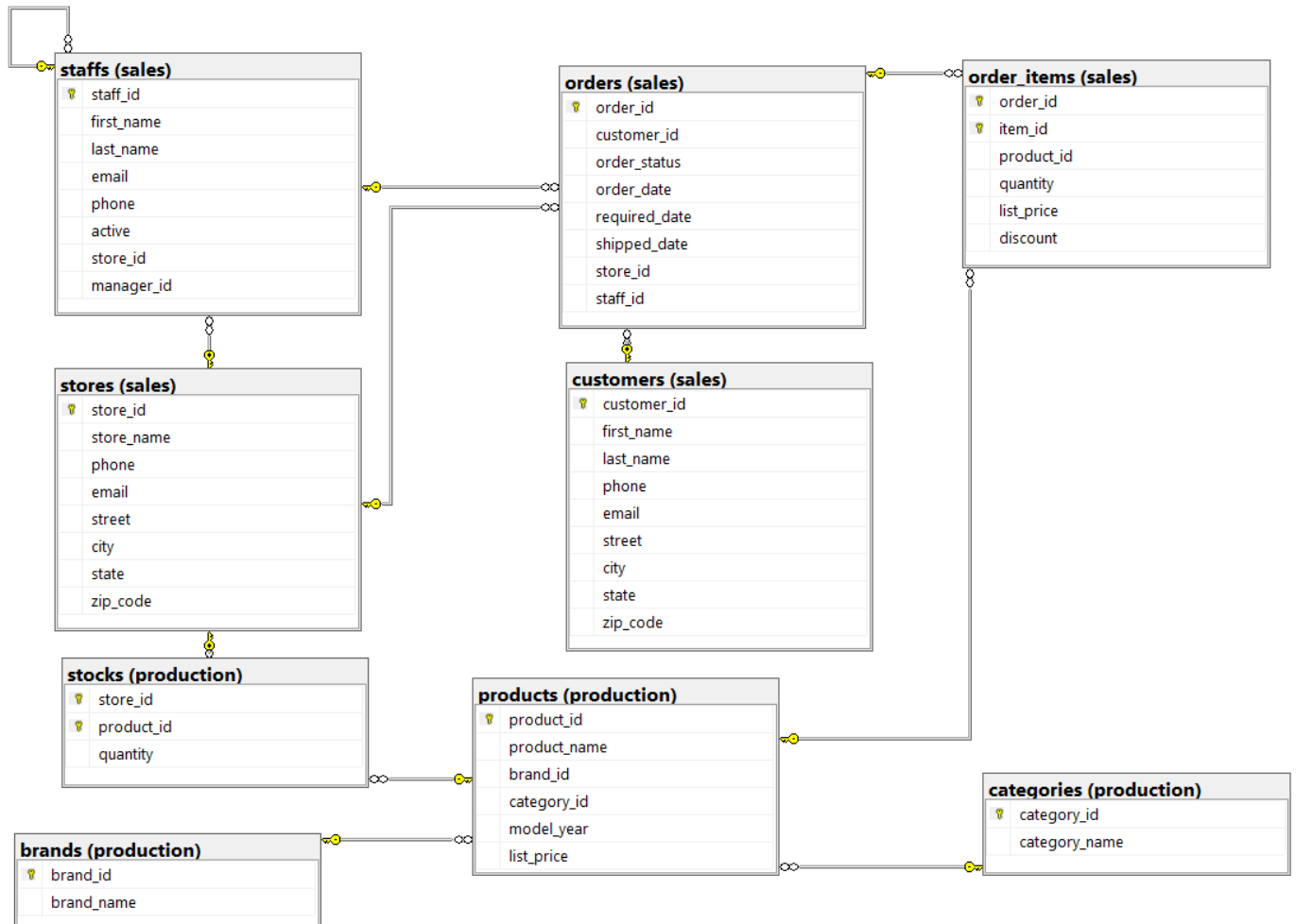
Faculty of Computers and Artificial Intelligence

Information Systems Department

2023/2024



- Dataset URL : https://drive.google.com/file/d/10Ikpr_T8wgcFru-WgUBaAecq3VYjvKY/view?usp=share_link
- ERD for the database :





Dimensional model.

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



- **Define the dimensions.**

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

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

Faculty of Computers and Artificial Intelligence

Information Systems Department

2023/2024

