

# Final Lab Assignment

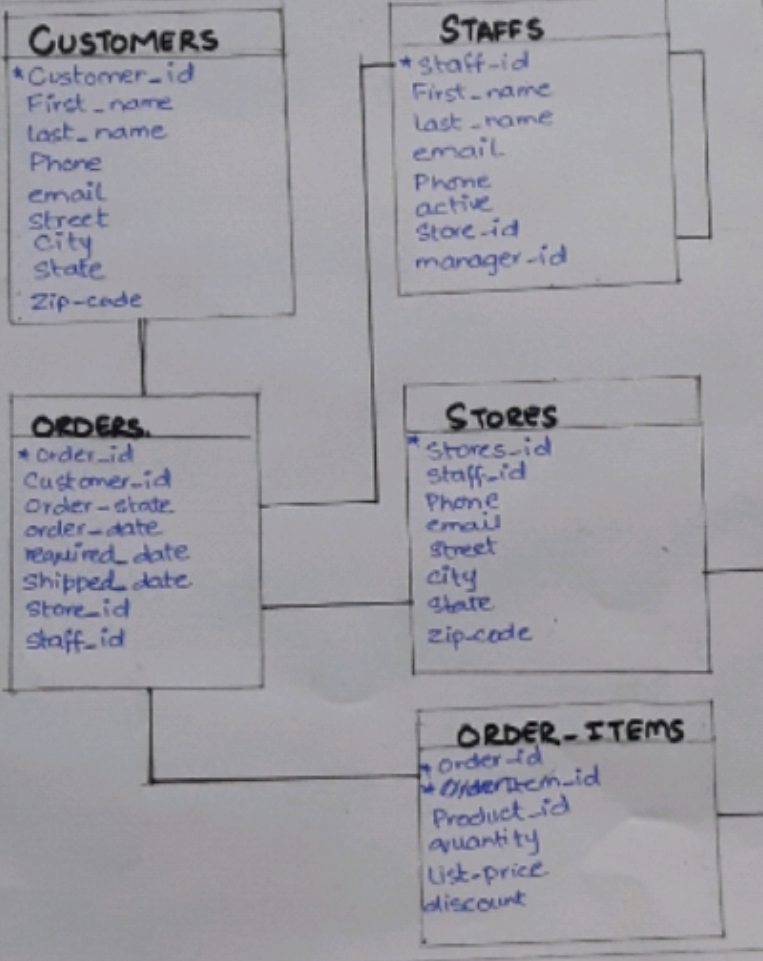
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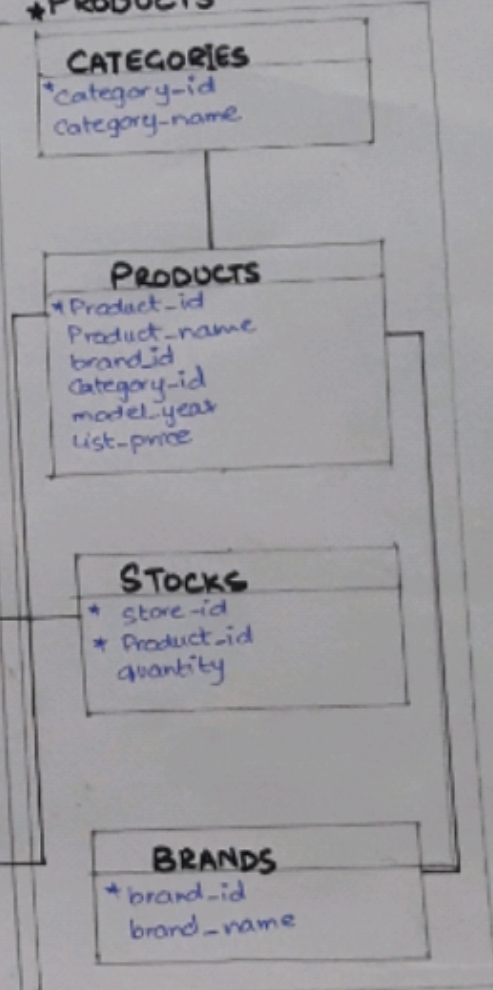
Teacher: Sir Fain Shoukat.

Subject: Dataware housing

\* SALES \*



\* PRODUCTS \*



## Database Tables

### Table sales.store.

#### • Create Table sales.store (

```
store_id INT IDENTITY (1, 1) PRIMARY KEY,  
store_name VARCHAR (255) NOT NULL,  
phone VARCHAR (25),  
email VARCHAR (255),  
street VARCHAR (255),  
city VARCHAR (255),  
state VARCHAR (10),  
zip_code VARCHAR (5)
```

#### • Table Sales.staffs

#### • Create Table staffs (

```
staff_id INT IDENTITY (1, 1) PRIMARY KEY,  
first_name VARCHAR (50) NOT NULL,  
last_name VARCHAR (50) NOT NULL,  
email VARCHAR (255) NOT NULL, UNIQUE,  
phone VARCHAR (25),  
active TINYINT NOT NULL,  
store_id INT NOT NULL,  
manager_id INT,  
FOREIGN KEY (store_id)  
REFERENCES Sales.store (store_id)  
ON DELETE CASCADE ON UPDATE CASCADE,  
FOREIGN KEY (manager_id)  
REFERENCES Sales.staff (staff_id)  
ON DELETE NO ACTION NO UPDATE NO ACTION  
);
```

## Table Production.brands

CREATE TABLE Production.brands(

brand\_id INT IDENTITY (1,1) PRIMARY KEY  
brand\_name VARCHAR (255) NOT NULL

## Table Production.Products

CREATE TABLE Production.Products(

Product\_id INT IDENTITY (1,1) PRIMARY KEY

Product\_name VARCHAR (255) NOT NULL,

brand\_id INT NOT NULL,

Category\_id INT NOT NULL,

model\_year SMALLINT NOT NULL,

List\_price DECIMAL (10,2) NOT NULL,

FOREIGN KEY (category\_id)

REFERENCES production.category (category\_id).

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (brand\_id).

REFERENCES sales.brands (brand\_id).

ON DELETE CASCADE ON UPDATE CASCADE  
);

## Table Sales.Customers

CREATE TABLE Sales.Customers(

Customer\_id INT IDENTITY (1,1) PRIMARY KEY

First\_name VARCHAR (255) NOT NULL,

Last\_name VARCHAR (255) NOT NULL,

Phone VARCHAR (25),

email VARCHAR (255), NOT NULL,

street VARCHAR (255),

City VARCHAR (50),

State VARCHAR (25),

Zip-code VARCHAR (5)

## Table Sales.orders

```
CREATE TABLE sales.orders (  
  order_id INT IDENTITY (1,1) PRIMARY KEY,  
  customer_id INT ,  
  order_state tinyint NOT NULL ,  
  -- Order state: 1 = Pending 2 = Processing 3 = Rejected 4 = Completed  
  order_date DATE NOT NULL ,  
  required_date DATE NOT NULL ,  
  shipped_date DATE ,  
  store_id INT NOT NULL ,  
  staff_id INT NOT NULL ,  
  FOREIGN KEY (customer_id)  
  REFERENCES sales.customers (customer_id)  
  ON DELETE CASCADE ON UPDATE CASCADE,  
  FOREIGN KEY (staff_id)  
  REFERENCES sales.staffs (staff_id)  
  ON DELETE NO ACTION ON UPDATE NO ACTION  
  FOREIGN KEY (store_id)  
  REFERENCES sales.store (store_id).  
  ON DELETE CASCADE ON UPDATE CASCADE.  
);
```

## Table Sales.Order\_items

```
CREATE TABLE sales.Order_items(  
  order_id INT ,  
  item_id INT ,  
  product_id INT NOT NULL  
  list_price DECIMAL (10,2) NOT NULL,  
  discount DECIMAL (4,2) NOT NULL DEFAULT 0,  
  PRIMARY KEY (order_id, item_id)  
  FOREIGN KEY (order_id)  
  REFERENCE sales.orders (order_id).  
  ON DELETE CASCADE ON UPDATE CASCADE,  
  FOREIGN KEY (product_id)  
  REFERENCE production.products (product_id)  
  ON DELETE CASCADE ON UPDATE CASCADE  
);
```

## Table Production.Stocks

CREATE TABLE Production.stocks(

store\_id INT ,

Product\_id INT ,

quantity INT ,

PRIMARY KEY (store\_id, Product\_id),

FOREIGN KEY (store\_id),

REFERENCES Sales.stocks (store\_id),

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (Product\_id)

REFERENCES production.products (Product\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);