DAMG 6210 DMDD PROJECT
ONLINE RETAIL MANAGEMENT SYSTEM (ORMS)
TEAM 13

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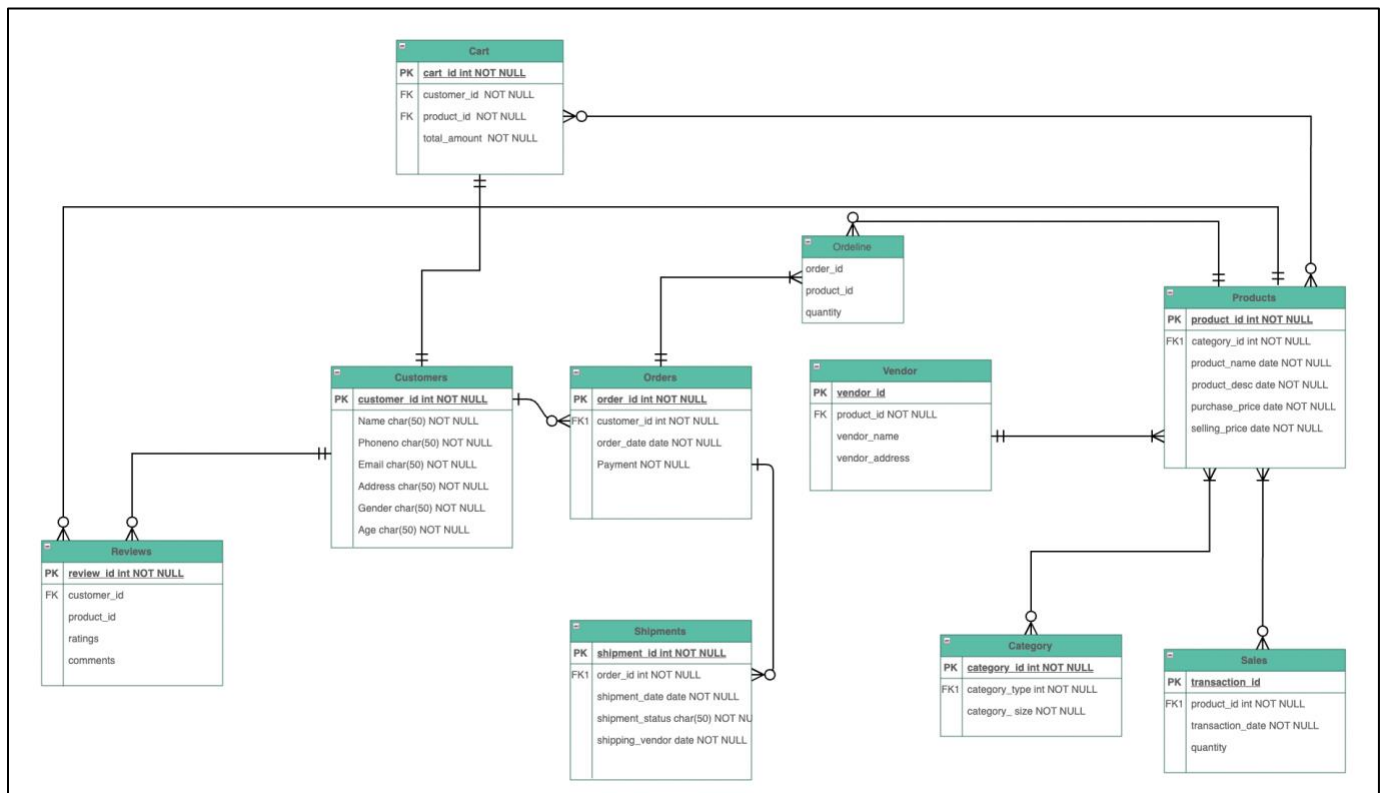
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INITIAL ERD

Below is the ERD diagram for our Online Retail Management System

DATABASE DESIGN

The entities in the retail store management system are Customers, Reviews, Products, Orders, Cart, Orderline, Shipment, Vendor, Category, Sales. Below are some details for these entities that will explain our aim for this design.

⇒ Customers can place orders for products. Customer ID is the primary key, and other attributes are phone number, email, address, age and Gender. Customers can place multiple orders, but each order is placed only by exactly one member.

⇒ Order is identified by order ID with attributes of order date and payment. This can contain one or more products. Customer ID is the foreign key.

⇒ In Review entity feedback is captured using review ID as primary key and other attributes are ratings, comments and product ID. Customer ID is the foreign key.

⇒ The products in the store are grouped under categories. Each product is identified with a Product ID which is the primary key. Other attributes are product name, description, purchase price and selling price. Customer ID acts as the foreign key.

⇒ Products are divided into categories. Each Category has a Category id as Primary key category type as foreign key and size as attribute.

⇒ Products are supplied by vendors. Each of these is identified by their vendor ID with attributes of name and address. A vendor can supply one or more supplies of products. Product ID acts as the foreign key.

⇒ Customer's orders are tracked through the shipment entity which contains shipment ID as the Primary key and Order ID as the foreign key. The other attributes are shipment date, status, and vendor.

⇒ The Cart entity has cart ID as the primary key and Customer ID and Product ID act as foreign keys. The other attribute is quantity.

⇒ The Sold products are tracked through the sales entity which has transaction ID as the primary key and product ID as the foreign key. The other attributes are quantity and transaction date.

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