Entities and Attributes

1. customer (customer_id(PK), first_name, last_name, email, password_hash, gender, membership, date_of_birth, customer_address (zip_code, country, state, city, street))

2. order(order_id (PK), customer_id (FK), product_id(FK), order_date, order_status, order_details(sub_quantity))

3. transactions (transaction_id(PK), order_id(FK), customer_id(FK), transaction_time, transaction_status, payment_method)

4. delivery (delivery_id(PK), transaction_id(FK), customer_address_id(FK), delivery_start_sate, delivery_end_date, delivery_status)

5. product (product_id (PK), category_id(FK), product_price, product_name, discount_percentage, rate_value)

6. supply (supply_id(PK), supplier_id(FK), product_id(FK), stock)

7. supplier (supplier_id(PK), supplier_email, supplier_name, supplier_street, supplier_city, supplier_state, supplier_country, supplier_zip_code)

8. ads (ad_id(PK), product_id(FK), ad_start_date, ad_end_date, ad_status)

9. category (category_id(PK), parent_category_id(FK), category_type)