To design dimensional data models for Global Super Store, we need to understand the business requirements, dimensions, and facts involved in the data. Here's a simplified example of how we can design dimensional data models for a retail business like Global Super Store:

1. **Sales Data Model:**
   - **Fact Table:** `sales_fact`
     - Columns:
       - `order_id` (Primary Key)
       - `product_id` (Foreign Key)
       - `customer_id` (Foreign Key)
       - `order_date`
       - `quantity_sold`
       - `unit_price`
       - `total_sales_amount`
   - **Dimension Tables:**
     - `product_dim`
       - Columns:
         - `product_id` (Primary Key)
         - `product_name`
         - `category`
         - `subcategory`
     - `customer_dim`
       - Columns:
         - `customer_id` (Primary Key)
         - `customer_name`
         - `customer_segment`
     - `date_dim`
       - Columns:
         - `date_id` (Primary Key)
         - `order_date`
         - `day_of_week`
         - `month`
         - `quarter`
         - `year`

2. **Inventory Data Model:**
   - **Fact Table:** `inventory_fact`
     - Columns:

      - `product_id` (Foreign Key)
      - `warehouse_id` (Foreign Key)
      - `quantity_on_hand`
  - **Dimension Tables:**
    - `product_dim` (Same as in Sales Data Model)
    - `warehouse_dim`
      - Columns:
        - `warehouse_id` (Primary Key)
        - `warehouse_name`
        - `location`

3. **Customer Data Model:**
   - **Fact Table:** None (Customer data is primarily descriptive)
   - **Dimension Tables:**
     - `customer_dim` (Same as in Sales Data Model)

4. **Product Data Model:**
   - **Fact Table:** None (Product data is primarily descriptive)
   - **Dimension Tables:**
     - `product_dim` (Same as in Sales Data Model)

5. **Time Data Model:**
   - **Fact Table:** None (Time data is primarily descriptive)
   - **Dimension Tables:**
     - `date_dim` (Same as in Sales Data Model)

These are simplified dimensional data models. In a real-world scenario, additional dimensions and facts may be required based on the specific business requirements of Global Super Store. Each dimension table provides descriptive attributes related to a specific aspect of the business (e.g., product, customer, time), while the fact table contains numerical measures (e.g., sales quantity, sales amount) associated with business events (e.g., sales transactions).