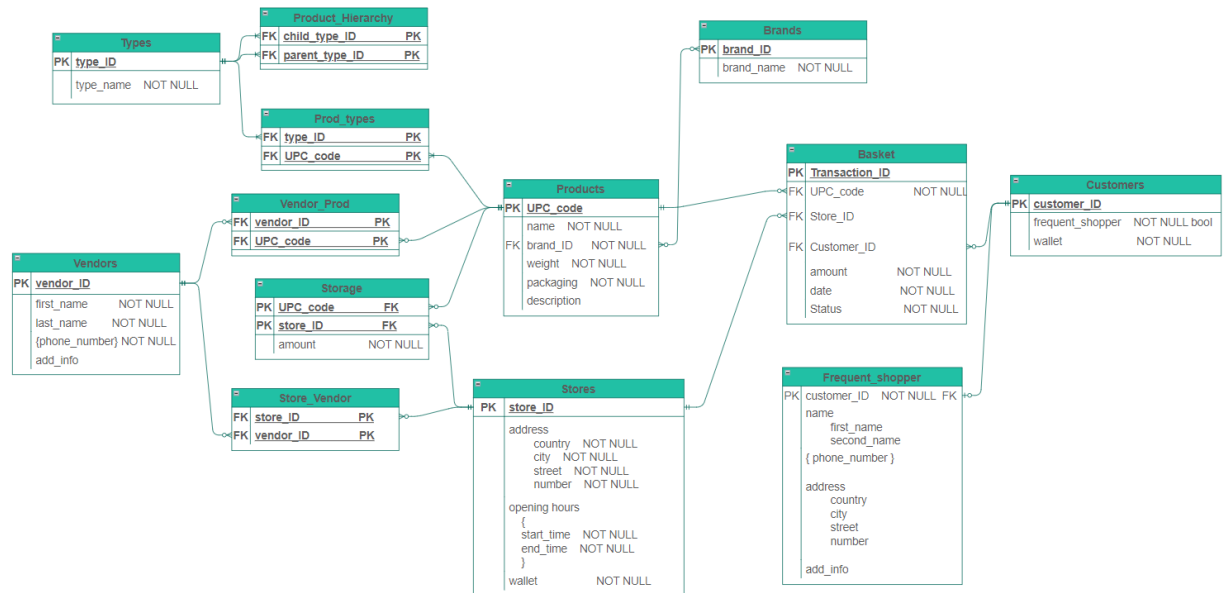
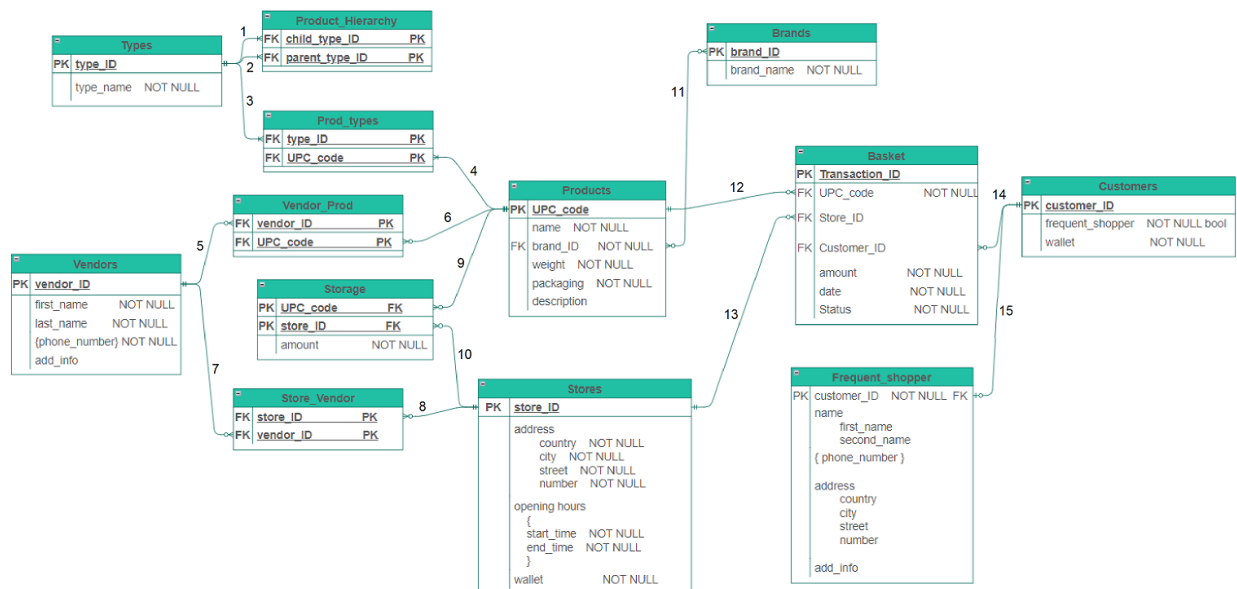


Project Tleusher Group

Updated ER-model



numbering of relations and description:



- 3) **Types(type_ID) – Prod_types(type_ID)**
and
- 4) **Products(UPC_code) – Prod_types(UPC_code): only 1 to 1 or many**, because each product can be of different types.
- 5) **Vendors(vendor_ID) – Vendor_Prod(vendor_ID)**
and
- 6) **Products(UPC_code) – Vendor_Prod(UPC_code): only 1 to 0 or many**, because each vendor can sell different products of different brands or nothing.
- 7) **Vendors(vendor_ID) – Store_Vendor(vendor_ID)**
and
- 8) **Stores(store_ID) - Store_Vendor(store_ID): only 1 to 0 or many**, because each vendor can work with 0 or many stores.
- 9) **Products(UPC_code) – Storage(UPC_code)**
and
- 10) **Stores(store_ID) – Storage(store_ID): only 1 to 0 or many**, because stores may sell multiple products or nothing.
- 11) **Products(brand_ID) – Brands(brand_ID): 0 or many to 0 or many**, because different brands may have the same product or nothing. The product may be unbranded.
- 12) **Products(UPC_code) – Basket(UPC_code): only 1 to 0 or many**, because customers may buy a lot of goods at the same time.
- 13) **Stores(store_ID) – Basket(store_ID): only 1 to 0 or many**, because different customers may buy in different stores at the same time.
- 14) **Customers(customer_ID) – Basket(customer_ID): only 1 to 0 or many**, because the customer can buy several items or nothing
- 15) **Customer(customer_ID) – Frequent_shopper(customer_ID): only 1 to 0 or 1**, because not all customers are frequent shoppers

DG - schema project - show visualization

