Zero Waste Market Data Dictionary

Entity Relationship Diagram
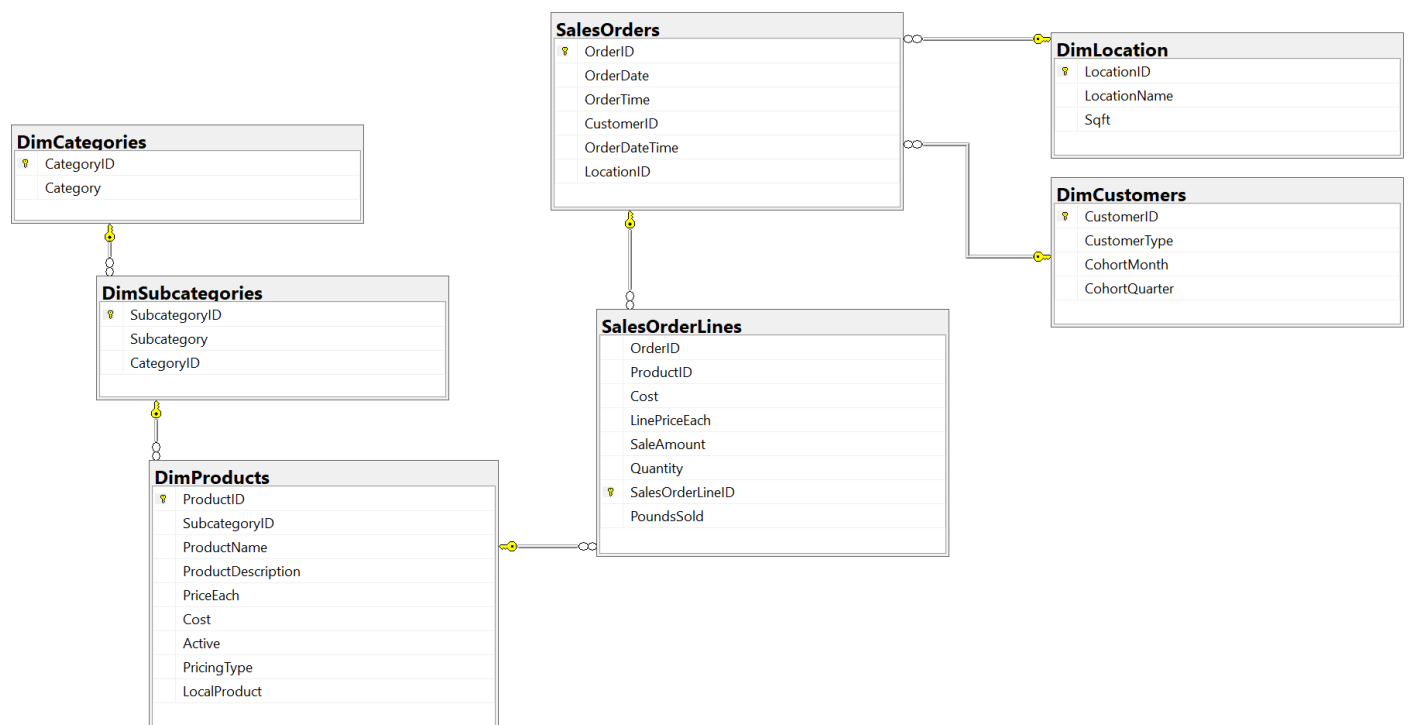
Legend

🔑   Primary Key

🔑   Foreign Key

Tables

SalesOrders (Fact Table)

Key	Column	Data Type	Description	Relationships
🔑	OrderID	INTEGER	Unique identifier of sales transaction	PK: SalesOrderLines.OrderID
	OrderDate	DATE	Date of transaction	
	OrderTime	TIME	Time of transaction	
	OrderDateTime	DATETIME2	Combined date and time of transaction	
🔑	CustomerID	NVARCHAR(50)	Identifies customers enrolled in loyalty program. If an identified customer, CustomerID, else 'Unknown'	FK: DimCustomers.CustomerID
🔑	LocationID	TINYINT	Store Location	FK: DimLocation.LocationID

SalesOrderLines (Fact Table)

Key	Column	Data Type	Description	Relationships
🔑	SalesOrderLIneID	INTEGER	Unique identifier of sales transaction detail line	
🔑	OrderID	INTEGER	Reference to Sales Order	FK: SalesOrders.OrderID
🔑	ProductID	SMALLINT	Reference to Product sold	FK: DimProducts.ProductID
	Quantity	SMALLINT	Quantity of product sold. If sold by weight, the quantity will be 1	
	LinePriceEach	DECIMAL(8,2)	Price each. If sold by weight, will be the price for the weighed amount	
	Cost	DECIMAL(8,2)	Cost of Product If sold by weight, will be the cost for the weighed amount. Accuracy of data is suspected to be low, as the DimProduct table is not updated as product costs change over time.	
	SaleAmount	DECIMAL(8,2)	Total sale price for this line	
	PoundsSold	DECIMAL(10,4)	If sold by weight, number of pounds sold If sold by each, 0	

DimCustomers (Dimension Table)

Key	Column	Data Type	Description	Relationships
🔑	CustomerID	NVARCHAR(50)	Unique identifier of known customers	PK: SalesOrders.CustomerID
	CustomerType	NVARCHAR(50)	Retail or Wholesale	
	CohortMonth	DATE	Month the customer made its first purchase	
	CohortQuarter	VARCHAR(8)	Quarter the customer made its first purchase	

DimLocation (Dimension Table)

Key	Column	Data Type	Description	Relationships
🔑	LocationID	TINYINT	Unique identifier of store location	PK: SalesOrders.LocationID
	LocationName	NVARCHAR(50)	Name of store location	
	Sqft	INT	Square footage of store location	

DimProducts (Dimension Table)

Key	Column	Data Type	Description	Relationships
🔑	ProductID	SMALLINT	Unique identifier of product	PK: SalesOrderLines.ProductID
	ProductName	NVARCHAR(100)	Name of Product	
	ProductDescription	NVARCHAR(100)	Product description	
	PricingType	VARCHAR(8)	Pricing Type of product : PerPound or Each	
🔑	SubcategoryID	TINYINT	Reference to Product Subcategory	FK: DimSubcategories. SubcategoryID
	PriceEach	DECIMAL(8,2)	Price Each or Price per Pound, depending on Pricing Type	
	Cost	DECIMAL(8,2)	Cost Each or Cost per Pound, depending on Pricing Type. Accuracy of data is suspected to be low, as the field is not updated as product costs change over time.	
	Active	BIT	1: Product Active, 0: Product Inactive	

DimSubcategories (Dimension Table)

Key	Column	Data Type	Description	Relationships
🔑	SubcategoryID	TINYINT	Unique identifier of product subcategory	PK: DimProducts.SubcategoryID
	Subcategory	NVARCHAR(50)	Subcategory Name	
🔑	CategoryID	TINYINT	Reference to parent category (hierarchical)	FK: DimCategories.CategoryID

DimCategories (Dimension Table)

Key	Column	Data Type	Description	Relationships
🔑	CategoryID	TINYINT	Unique identifier of product category	PK: DimSubcategories.CategoryID
	Category	NVARCHAR(50)	Category Name	