Data Catalogue

Schema: third

Purpose: Analytical layer combining CRM and ERP data into dimensional views for reporting and analysis.

Objects: Dimension Views (customer_dim, product_dim), Fact View (sales_fact)

View: third.customer_dim

Contains unified and enriched customer information from CRM and ERP systems. Serves as a customer dimension table for analytical models.

Column Name	Data Type	Description
customer_index	INT	Surrogate key (generated via ROW_NUMBER()) for internal reference in dimensional models.
customer_id	INT	Original customer ID from CRM system (crm_cust_info).
customer_key	NVARCHAR(50)	Business key for customer; unique across systems.
firstname	NVARCHAR(50)	Customer's first name.
lastname	NVARCHAR(50)	Customer's last name.
coutry	NVARCHAR(50)	Customer's country from ERP location data (erp_loc_a101). (Note: spelling typo in source as 'coutry')
marital_status	NVARCHAR(50)	Customer's marital status from CRM data.
gender	NVARCHAR(50)	Customer's gender; prioritizes CRM value, falls back to ERP if 'n/a'.
birthdate	DATE	Customer's date of birth from ERP (erp_cust_az12).
create_date	DATE	Customer creation date in CRM.

View: third.product_dim

Dimensional product data enriched with category and subcategory details. Used for product-based analysis and filtering.

Column Name	Data Type	Description
product_index	INT	Surrogate key for dimensional reference (generated by ROW_NUMBER()).
product_id	INT	Product ID from CRM (crm_prd_info).
product_key	NVARCHAR(50)	Business/product key.
product_name	NVARCHAR(50)	Product name from CRM.

category_id	NVARCHAR(50)	Category ID used to join with ERP category data.
category	NVARCHAR(50)	Product category from ERP (erp_px_cat_g1v2).
subcategory	NVARCHAR(50)	Product subcategory from ERP.
maintenance	NVARCHAR(50)	Maintenance category or group from ERP data.
cost	INT	Product cost (base cost) from CRM.
product_line	NVARCHAR(50)	Product line classification.
product_start_date	NVARCHAR(50)	Start date of product availability.

Note: Only includes active products (prd_end_dt IS NULL)

View: third.sales_fact

Fact table capturing transactional sales data. Links to customer and product dimensions via surrogate keys.

Column Name	Data Type	Description
order_number	NVARCHAR(50)	Sales order number from CRM.
product_index	INT	FK to product_dim.product_index.
customer_index	INT	FK to customer_dim.customer_index.
order_date	NVARCHAR(50)	Date when the order was placed.
shipping_date	NVARCHAR(50)	Date when the order was shipped.
due_date	NVARCHAR(50)	Due/expected delivery date.
sales_amount	INT	Total sales amount for the line item.
quantity	INT	Number of units sold.
price	INT	Unit price of the product sold.

Note: Links via business keys: sls_prd_key to product_key and sls_cust_id to customer_id.

Summary

View Name	Type	Primary Purpose
customer_dim	Dimension	Customer profiling
product_dim	Dimension	Product catalog & hierarchy
sales_fact	Fact	Sales transaction analysis