DESIGN

DATAMART

Created by:
Febrianti

febrr64@gmail.com
LinkedIn

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The following are the steps to create a datamart:

Table base
A. The base table is the result of merging 4 tables with id_sales as the Primary Key (the combination between id_invoice and id_goods).
B. The number of data rows in the base table is the same as the number in data_sales.
C. The base table is stored in the data warehouse.

Aggregate table
A. The aggregate table is derived from the base table where there is additional data in the form of total_amount which is calculated from the number of goods and prices.
B. The aggregate table is stored in the datamart.

Table Base "Data Sales"

COLUMN	DATA TYPE	DESCRIPTION	TRANSFORMATION
id_penjualan	Varchar	Primary Key	Extracted from id_invoice and id_barang
id_invoice	Varchar	Invoice identity	
id_customer	Varchar	Customer identity	
id_barang	Varchar	Item identity	
id_distributor	Varchar	Distributor identity	
month	Integer	month when customer made transaction	Extracted from 'tanggal' column
nama	Varchar	Customer name	
cabang_sales	Varchar	Customer city	
grup	Varchar	Customer type	
nama_barang	Varchar	Item name	
brand	Varchar	Item brand	
harga	Integer	Unit price of item	
jumlah_barang	Integer	Number of items purchased	
tanggal	Date	Transaction time	

Table Aggregate "Data Sales"

COLUMN	DATA TYPE	DESCRIPTION	TRANSFORMATION
id_penjualan	Varchar	Primary Key	Extracted from id_invoice and id_barang
id_invoice	Varchar	Invoice identity	
id_customer	Varchar	Customer identity	
id_barang	Varchar	Item identity	
id_distributor	Varchar	Distributor identity	
month	Integer	month when customer made transaction	Extracted from 'tanggal' column
nama	Varchar	Customer name	
cabang_sales	Varchar	Customer city	
grup	Varchar	Customer type	
nama_barang	Varchar	Item name	
brand	Varchar	Item brand	
harga	Integer	Unit price of item	
jumlah_barang	Integer	Number of items purchased	
tanggal	Date	Transaction time	
total_amount	Integer	Revenue	Obtained from the multiplication of the number of goods and the price of goods