

# SUMI SUMI BENTO

## Data Warehouse Design



A screenshot of a data preview interface for the 'dimension\_karyawan' table. The table displays three rows of data:

	karyawan_id	nama_karyawan	gaji
1	K003	Dewi Lestari	1000000.00
2	K004	Sari Ningsih	1000000.00
3	K005	Rangga Maulana	1000000.00



# 3) Sumi Sumi Bento Data Warehouse Design

*Data Warehouse Design and Implementation for UMKM Sumi Sumi Bento*

## Client Background

Sumi Sumi Bento is a food & beverage MSME established in 2023, specializing in Japanese-style ready-to-eat meals, with rapidly growing transactions that are still recorded manually using paper-based notes.

## Challenges

- Manual transaction records cause recap delays
- High risk of recording errors
- No centralized historical sales data
- Limited visibility into sales performance and trends

## Tools

- Microsoft Fabric
- T-SQL



# Data Warehouse—Data Preview on Microsoft Fabric

The screenshot shows the Microsoft Fabric Data Preview interface. The top navigation bar includes a user profile, search bar, trial status (58 days left), and various icons. The left sidebar lists workspaces, OneLake catalog, monitor, real-time, workloads, and usulan. The main area displays the 'dimension\_karyawan' table from the 'Sumi Sumi Bento' warehouse. The table has three columns: karyawan\_id, nama\_karyawan, and gaji. The data preview shows 1000 rows with the following data:

	karyawan_id	nama_karyawan	gaji
1	K003	Dewi Lestari	1000000.00
2	K004	Sari Ningsih	1000000.00
3	K005	Rangga Maulana	1000000.00

The bottom status bar indicates the operation succeeded in 9 seconds and 183 ms, with 3 columns and 3 rows.

## Data preview - dimension\_pelanggan

Showing 1000 rows

Search

	ABC pelanggan_id	ABC metode_pembayaran
1	161	Qris
2	162	Cash
3	163	Cash

## Data preview - dimension\_produk

Showing 1000 rows

Search

	ABC nama_produk	1.2 harga_produk
1	Sumi Hemat A	13000.00
2	Sumi Hemat B	13000.00
3	Sumi Hemat C	13000.00

## Data preview - dimension\_waktu

Showing 1000 rows

Search

	ABC waktu_id	ABC tahun	ABC bulan	ABC tanggal	ABC jam
1	2025161	2025	4	15	15-41-36
2	2025162	2025	4	15	16-28-43
3	2025163	2025	4	15	16-33-02

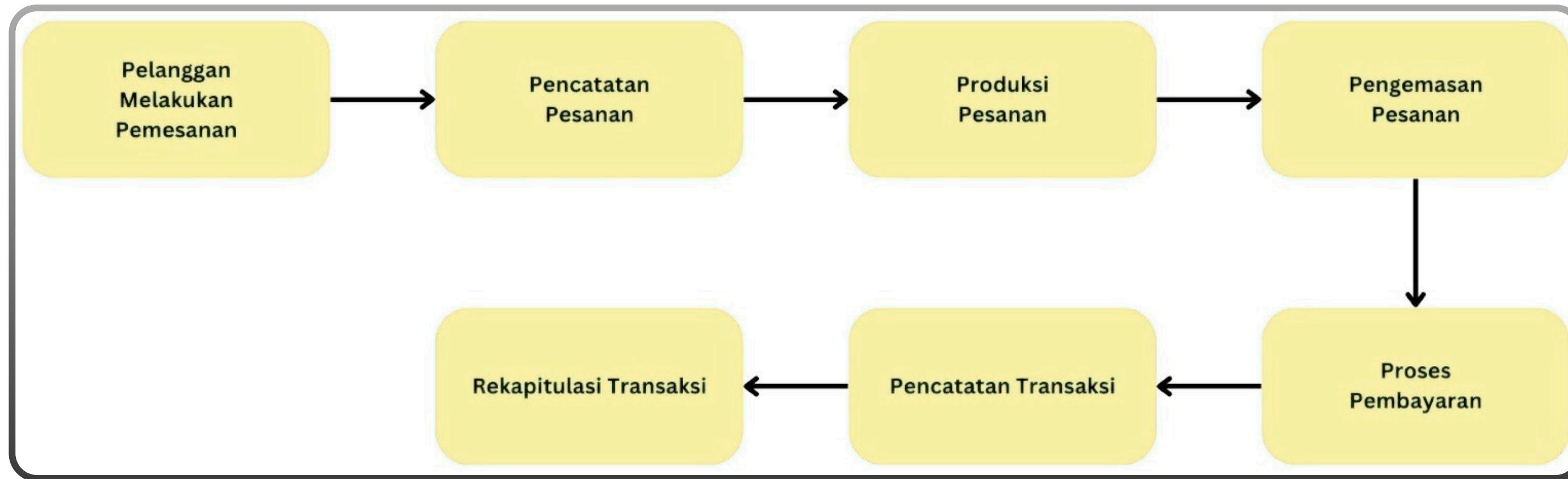
## Data preview - fakta\_penjualan

Showing 1000 rows

Search

	ABC penjualan_id	ABC pelanggan_id	ABC nama_produk	ABC karyawan_id	ABC waktu_id	123 jumlah_produk	1.2 total_harga
1	2025161	161	Sumi Hemat B	K005	W161	1	13000.00
2	2025162	162	Sumi Hemat C	K005	W162	1	13000.00
3	2025163	163	Sumi Hemat B	K005	W163	1	13000.00

## Business Process



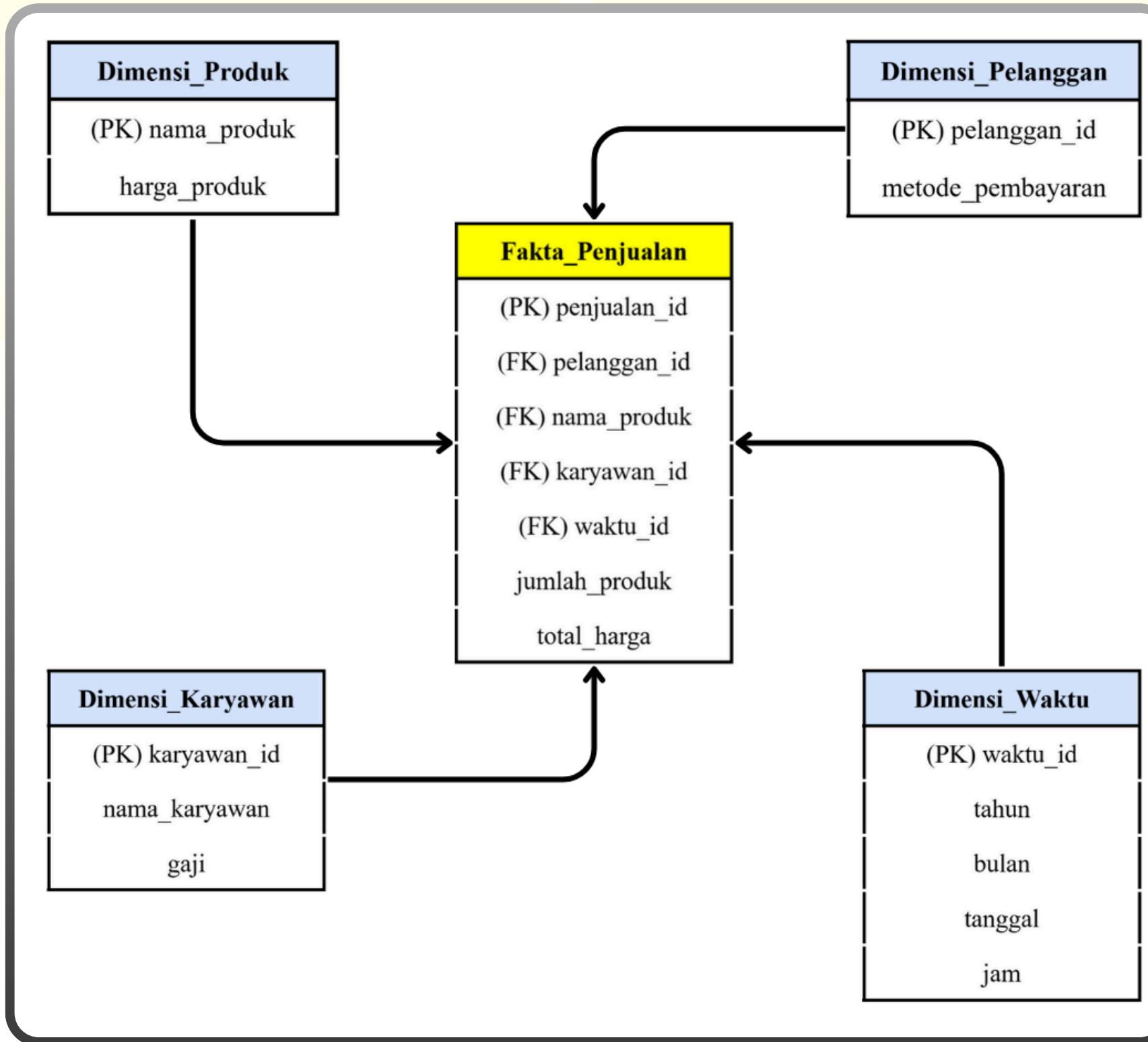
### Project Objective & Scope

- Build a sales-focused data warehouse
- Support analytical reporting, not daily operations
- Scope limited to sales transactions (data mart)

### Design Approach

- User-driven & data-driven analysis
- Kimball Bottom-Up methodology

# Design—Star Schema



## Product Dimension

- Stores ready-to-eat product information with `nama_produk` (PK) and `harga_produk`.

## Customer Dimension

- Represents customers with `pelanggan_id` (PK) and `metode_pembayaran`.

## Employee Dimension

- Stores sales staff data including `karyawan_id` (PK), `nama_karyawan`, and `gaji`.

## Time Dimension

- Provides structured time data with `waktu_id` (PK), `tahun`, `bulan`, `tanggal`, and `jam`.

Detailed project documentation can be accessed through the following link:

# Full Documentation

