

# Star Schema Example

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# Case Study

- Nature's Food & Beverage is a new company which produces dairy, bread and meat products with a production unit located at Terre Haute in Indiana
- Their products are sold in North, Northwest and Western region of the country
- They have sales units in Michigan City (IN), Peoria (IL), Arlington (TX), Denver (CO), and Boise (ID)
- The President of the company wants sales information

# Sales Information

Report: The number of units sold.

113

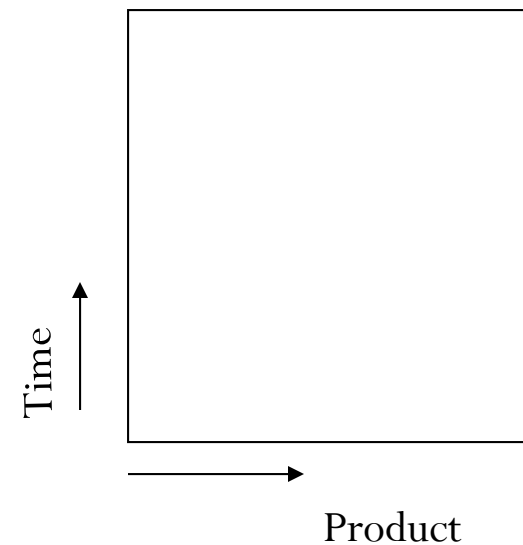
Report: The number of units sold over time

January	February	March	April
14	41	33	25

# Sales Information

Report : The number of items sold for each product with time

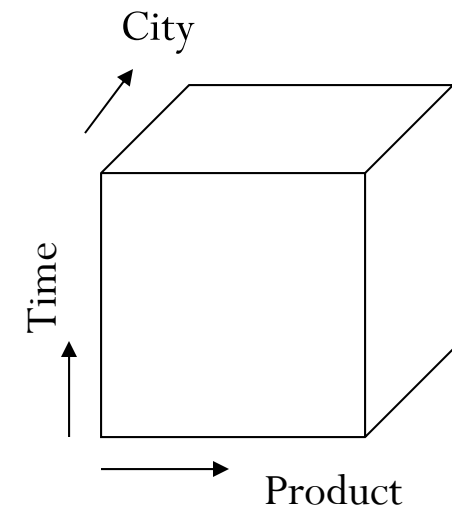
	Jan	Feb	Mar	Apr
Wheat Bread			6	17
Cheddar Cheese	6	16	6	8
Swiss Rolls	8	25	21	



# Sales Information

Report: The number of items sold in each City for each product with time

		Jan	Feb	Mar	Apr
Michigan City	Wheat Bread			3	10
	Cheddar Cheese	3	16	6	
	Swiss Rolls	4	16	6	
Peoria	Wheat Bread			3	7
	Cheddar Cheese	3			8
	Swiss Rolls	4	9	15	



# Sales Information

Report: The number of items sold and income in each region for each product with time.

		Jan		Feb		Mar		Apr	
		\$	U	\$	U	\$	U	\$	U
Michigan City	Wheat Bread					7.44	3	24.80	10
	Cheddar Cheese	7.95	3	42.40	16	15.90	6		
	Swiss Rolls	7.32	4	29.98	16	10.98	6		
Peoria	Wheat Bread					7.44	3	17.36	7
	Cheddar Cheese	7.95	3					21.20	8
	Swiss Rolls	7.32	4	16.47	9	27.45	15		

# Sales Measures & Dimensions

- Measure – Units sold, Amount
- Dimensions – Product, Time, Region

# Sales Data Warehouse Model

Fact Table

City	Product	Month	Units	Dollars
Michigan City	Wheat Bread	January	3	7.95
Michigan City	Cheddar Cheese	January	4	7.32
Peoria	Wheat Bread	January	3	7.95
Peoria	Cheddar Cheese	January	4	7.32
Michigan City	Swiss Rolls	February	16	42.40



# Sales Data Warehouse Model

City_ID	Prod_ID	Month	Units	Dollars
1	589	1/1/2008	3	7.95
1	1218	1/1/2008	4	7.32
2	589	1/1/2008	3	7.95
2	1218	1/1/2008	4	7.32
1	589	2/1/2008	16	42.40

# Sales Data Warehouse Model

## Product Dimension Tables

Prod_ID	Product_Name	Product_Category_ID
589	Wheat Bread	1
590	Wonder Bread	1
288	Coconut Cookies	2

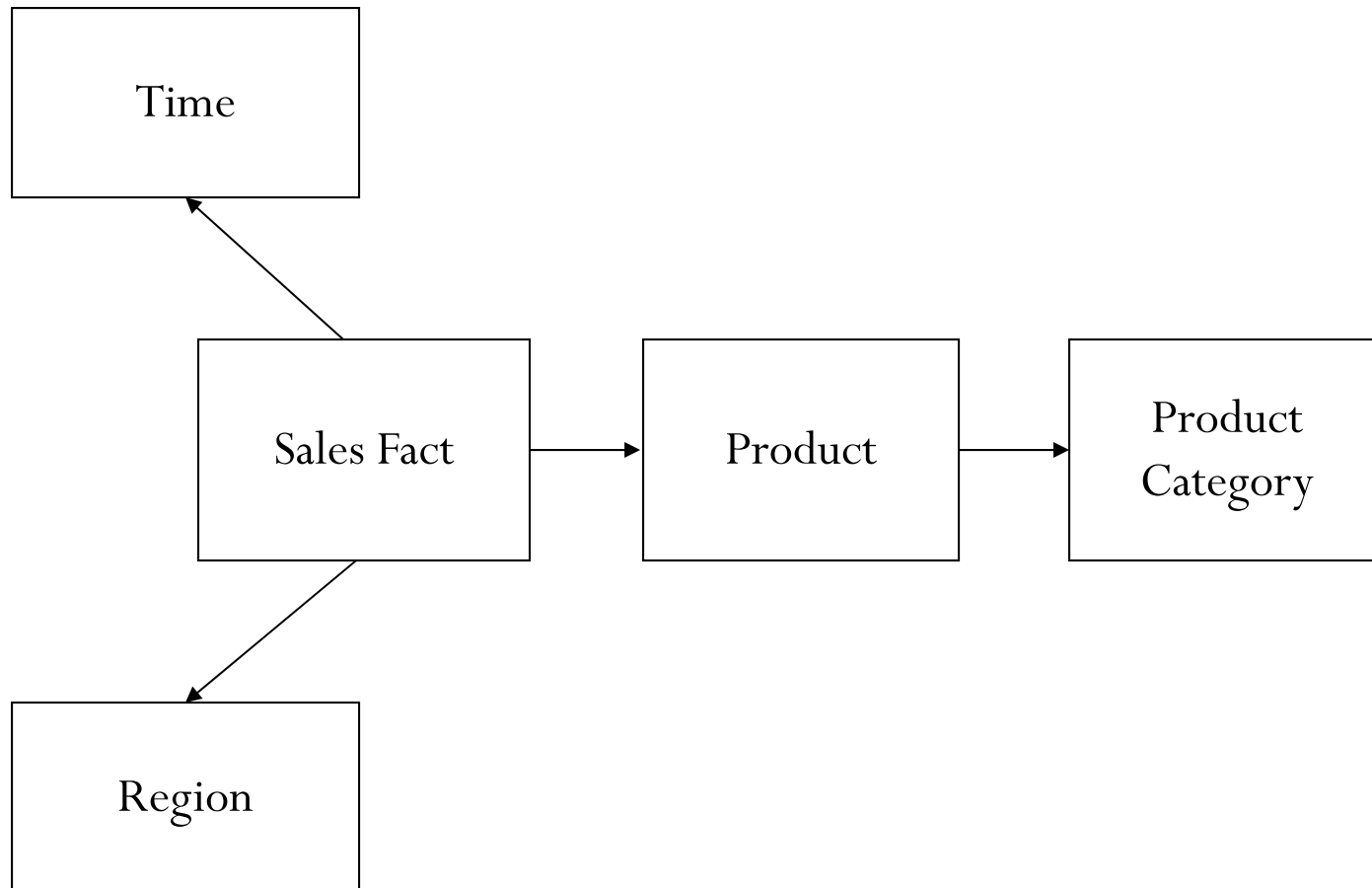
Product_Category_Id	Product_Category
1	Bread
2	Cookies

# Sales Data Warehouse Model

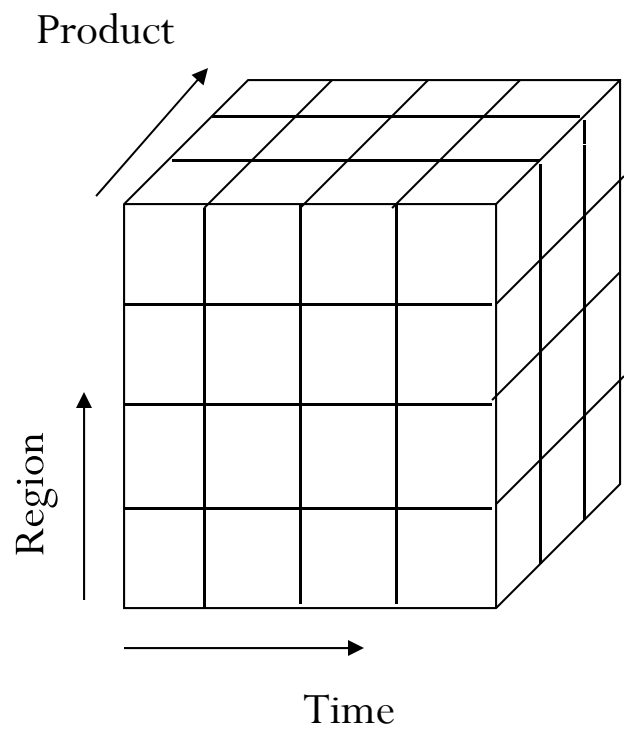
Region Dimension Table

City_ID	City	Region	Country
1	Michigan City	Midwest	USA
2	Peoria	Midwest	USA

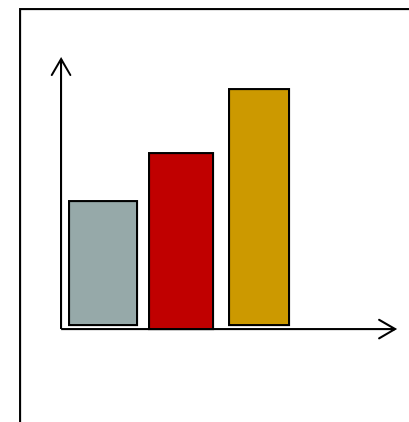
# Sales Data Warehouse Model



# Presentation



Reporting  
Tool



Report

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