



Université de Sherbrooke

Bases de données dimensionnelles

Exemple Commande

MCED_BDD_90

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CoFELI/«depot»/BDD_90-Exemple-Commande, version 1.0.0.a, en date du 2024-04-19

— document de travail, ne pas citer —

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1. Introduction

Cet exemple de processus de commande tiré de [Adamson2010a].

1.1. Élicitation

Order Report Western Region January 2009 (cont'd)					
Category	Product	SKU	Quantity Sold	Cost	Order Dollars
Packaging	Box - Large	011-4822	700	\$ 950.53	\$ 1,100.00
	Box - Medium	011-4899	1,250	\$ 1,001.84	\$ 1,380.00
	Box - Small	011-5744	1,200	\$ 1,200.72	\$ 1,330.00
	Clasp Letter	011-1729	400	\$ 352.82	\$ 356.00
	Envelope #10	021-0011	2,000	\$ 2,017.46	\$ 2,080.00
	Envelope Bubble	021-0012	1,200	\$ 866.51	\$ 1,212.00
	<i>All Packaging</i>			\$ 6,389.88	\$ 7,458.00
Pens	Gel Pen Black	017-1999	5000	\$ 116.39	\$ 120.00
	Gel Pen Blue	017-2444	2990	\$ 600.88	\$ 624.91
	Silver Pen	017-3001	50	\$ 128.46	\$ 130.00
	<i>All Pens</i>			\$ 845.73	\$ 874.91
Grand Total				\$207,229.42	\$214,896.91
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Figure 1-2 Sample page from an orders report

Facts	Dimensions
Order Dollars	Product
Cost Dollars	Product Description
Quantity Ordered	SKU
	Brand Code
	Brand
	Brand Manager
	Category Code
	Category
	Order Date
	Month of Order
	Quarter of Order
	Fiscal Period of Order
	Year of Order
	Salesperson
	Salesperson ID
	Territory
	Territory Code
	Territory Manager
	Region
	Region Code
	Region VP
	Customer
	Customer ID
	Headquarters State of Customer
	Billing Address
	Billing City
	Billing State
	Billing Zip
	SIC Code of Customer
	Industry Name of Customer

Figure 1-3 Facts and dimensions for the orders process

1.2. Schéma en étoile

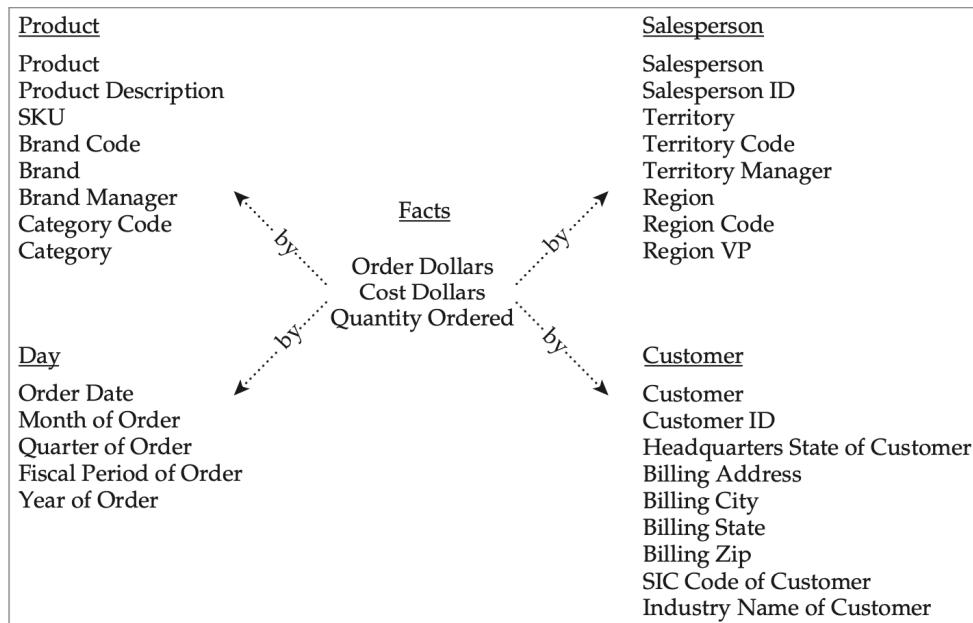


Figure 1-4 Sorting out facts and dimensions for the orders process

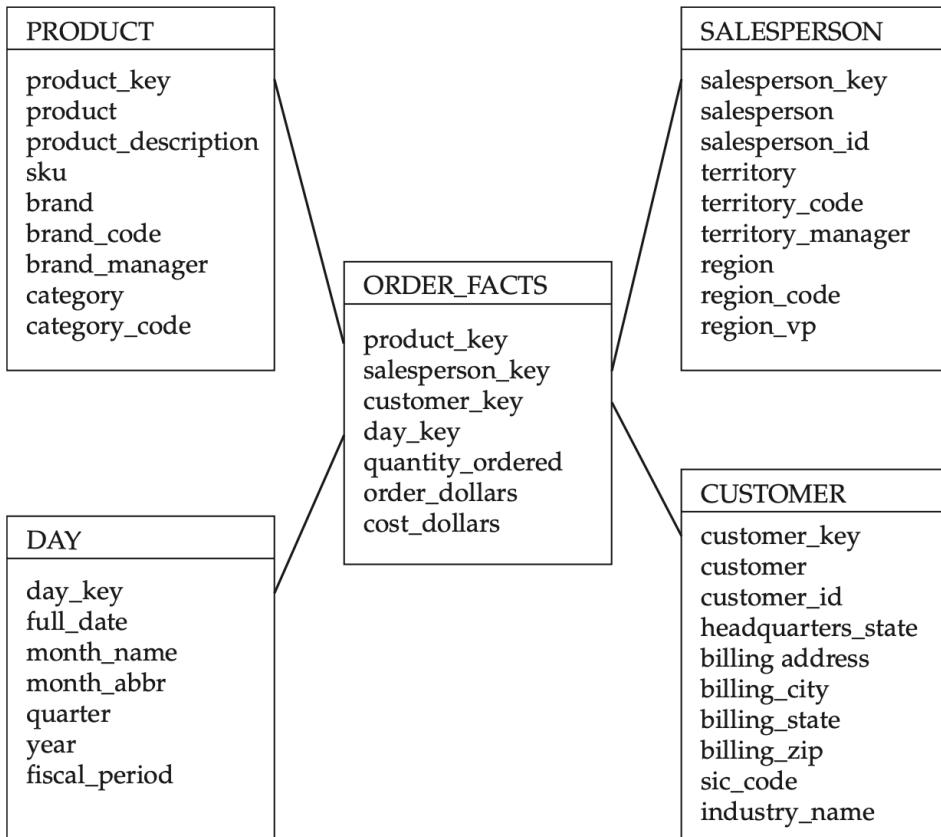


Figure 1-5 A simple star schema for the orders process

A fact row represents orders of a product sold by a salesperson to a customer on a given day.

1.3. Interrogation

1.3.1. Browser

SQL Query

```
SELECT DISTINCT
    product.category
FROM
    product
ORDER By
    product.category
```

Query Results

CATEGORY
=====
.
.
.
Fasteners
Folders
Packaging
Pens
Measurement
Notebooks
Storage
.
.
.

SQL Query

```
SELECT DISTINCT
    product.category,
    product.product
FROM
    product
WHERE
    product.category = "Packaging"
ORDER BY
    product.product
```

Query Results

CATEGORY	PRODUCT
=====	=====
Packaging	Box - Large
Packaging	Box - Medium
Packaging	Box - Small
Packaging	Clasp Letter
Packaging	Envelope #10
Packaging	Envelope Bubble

Figure 1-7 Browse queries and their results

1.3.2. Drill across

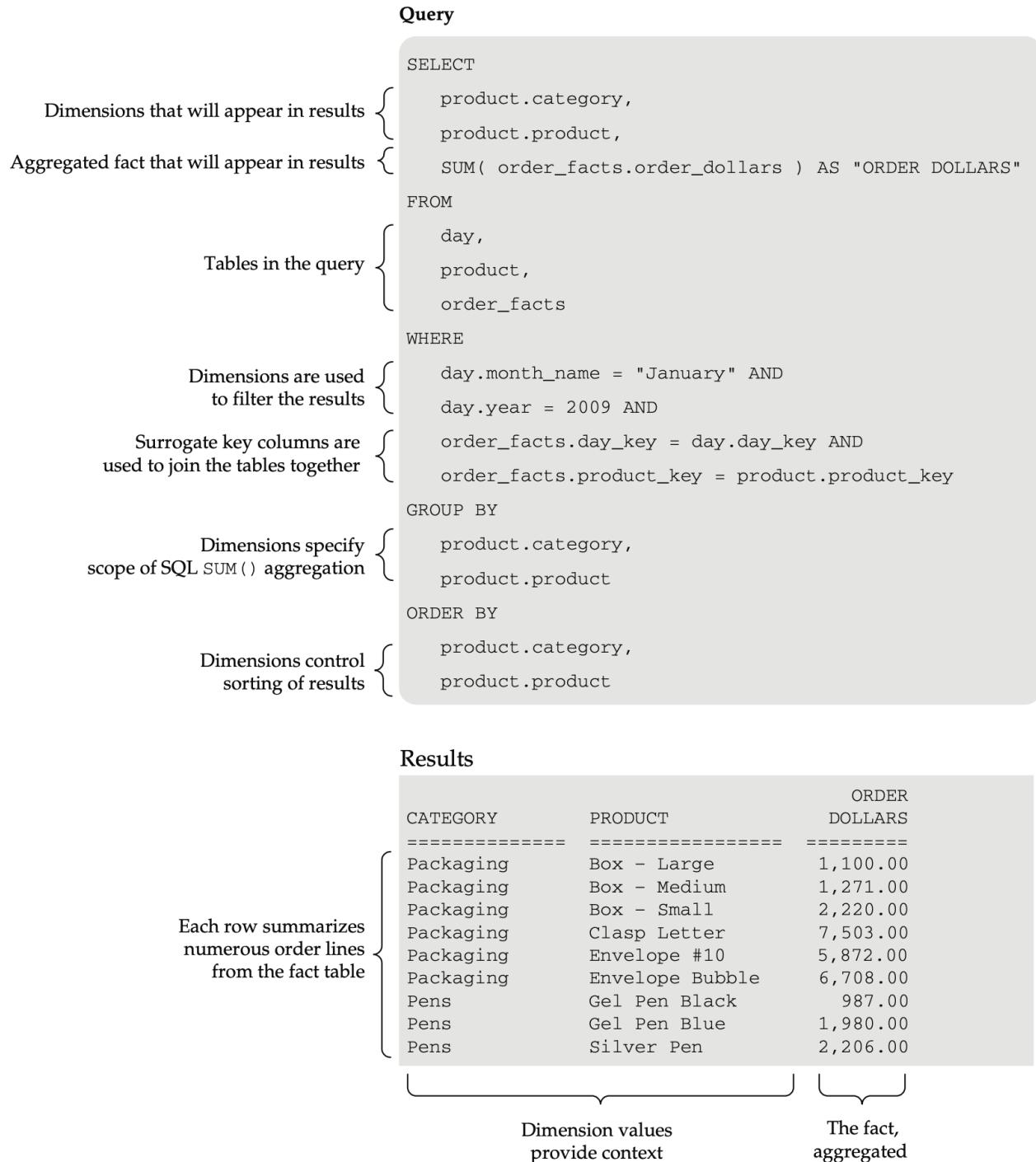


Figure 1-6 Querying the star schema

Références

[Adamson2010a]

Christopher ADAMSON;

The complete reference star schema;

McGraw-Hill, New York (NY, US), 2010;

ISBN 978-0-07-174432-4.



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