

Design Workshop

4-Step Dimensional Design Process

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1. Identify the Business Process

- Source of “measurements”
- e.g. taking orders, invoicing, receiving payments, handling service calls, etc.

2. Identify the Grain

- What does 1 row in fact table represent/mean?
- Lowest atomic grain delivers most flexibility

3. Identify the Dimensions

- Descriptive context, true to the grain

4. Identify the Facts

- Numeric additive measurements, true to the grain

4-Step Dimensional Design Process: An Example

1. Identify Business Process

- Claim Billing

2. Identify the Grain

- A line item of a doctor's bill

3. Identify Dimensions

- Date (of treatment)
- Doctor (maybe called “provider”)
- Patient
- Procedure
- Primary Diagnosis

4-Step Dimensional Design Process: An Example (Cont'd)

3. Identify Dimensions (cont'd)

- Location (presumably the doctor's office)
- Billing Organization (an organization the doctor belongs to)
- Responsible Party (either the patient, or the patient's legal guardian)
- Primary Payer (often an insurance plan)
- Secondary Payer (maybe the responsible party's spouse's insurance plan) and quite possibly others.

4. Identify the Facts

- Billed Amount

Design Workshop #1

Complete the 4-step process for designing dimensional models.

- Business Process:
- Grain:
- Dimensions:
- Facts:

Draw dimensional star schema

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Cashier: 98889/Julie		
Kelsyus Floating Cooler 1005 26.99-5.00 PROMO	<u>2@21.99</u>	43.98
Petzl E97 PP Tikka Plus 2 Headlamp, 1 1025 39.94-10.00 PROMO	<u>1@29.94</u>	59.88
Light My Fire Spork 4-Pack 1022	<u>1@13.99</u>	13.99
Coleman WeatherMaster 8 Tent 1049 206.99-50.00 PROMO	<u>1@156.99</u>	156.99
TOTAL		274.84
AMOUNT TENDERED		
CASH		274.84
ITEM COUNT		6

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