

Currency Conversion Fact

Conversion Date Key (FK)

Source Currency Key (FK)

Destination Currency Key (FK)

Source-Destination Exchange Rate

Destination-Source Exchange Rate

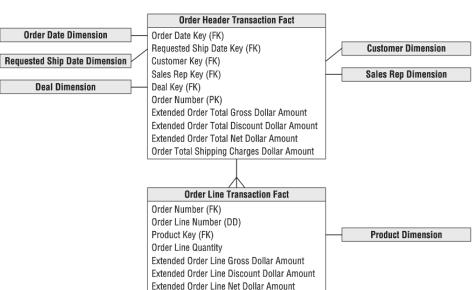
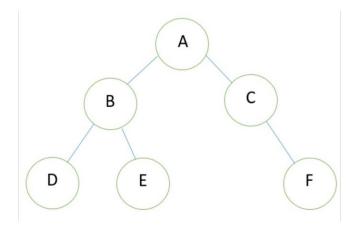
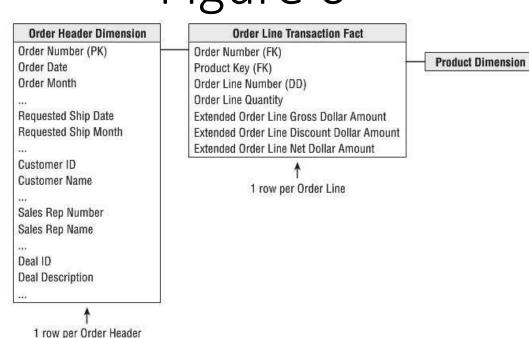


Figure 5





Original row in Product dimension:

Product Key	SKU (NK)		Department Name	
12345	ABC922-Z	IntelliKidz	Education	

Updated row in Product dimension:

Product Key	SKU (NK)	The state of the s	Department Name
12345	ABC922-Z	IntelliKidz	Strategy

Figure 9

Original row in Product dimension:

Product Key	SKU (NK)		Department Name
12345	ABC922-Z	IntelliKidz	Education

Updated row in Product dimension:

Product Key	SKU (NK)	The state of the s	Department Name	Prior Department Name
12345	ABC922-Z	IntelliKidz	Strategy	Education

Figure 8

Original row in Product dimension:

Customer Date of Birth

Product Key	SKU (NK)	Product Description	Department Name	 Row Effective Date	Row Expiration Date	Current Row Indicator
12345	ABC922-Z	IntelliKidz	Education	 2012-01-01	9999-12-31	Current

Rows in Product dimension following department reassignment:

Product Key	SKU (NK)	Product Description	Department Name	 Row Effective Date	Row Expiration Date	Current Row Indicator
12345	ABC922-Z	IntelliKidz	Education	 2012-01-01	2013-01-31	Expired
25984	ABC922-Z	IntelliKidz	Strategy	 2013-02-01	9999-12-31	Current

	Fact Table	
Customer Dimension	Date Key (FK)	
Customer Key (PK)	Customer Key (FK)	Demographics Dimension
Customer ID (NK)	Demographics Key (FK)	Demographics Key (PK)
Customer Name	More FKs	Age Band
Customer Address	Facts	Purchase Frequency Score
Customer City-State		Income Level
Customer State		
Customer ZIP-Postal Code		

Original row in Product dimension:

- 1	Product Key	SKU (NK) Product Description		Historic Department Name	Current Department Name	 Row Effective Date	Row Expiration Date	Current Row Indicator
	12345	ABC922-Z	IntelliKidz	Education	Education	 2012-01-01	9999-12-31	Current

Rows in Product dimension following first department reassignment:

Product Key SKU (NK)		Product Description	Historic Department Name	rtment Department		Row Effective Date	Row Expiration Date	Current Row Indicator	
12345	ABC922-Z	IntelliKidz	Education	Strategy		2012-01-01	2013-01-31	Expired	
25984	ABC922-Z	IntelliKidz	Strategy	Strategy		2013-02-01	9999-12-31	Current	

Figure 12

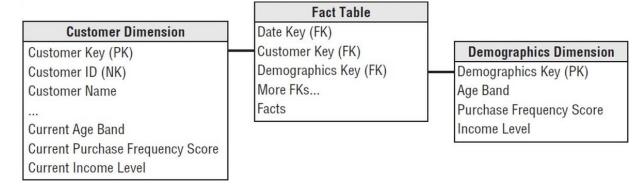
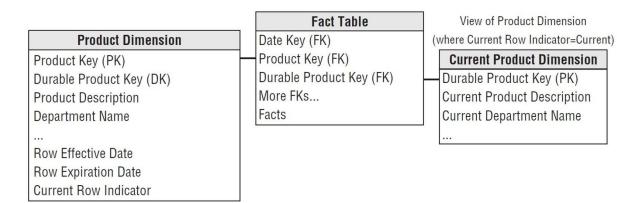


Figure 13



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Business Processes	Atomic Granularity	Metrics	Date	Produc	Vendo	Contra	Emplo	Wareh	Carrier
Purchase Requisitions	1 row per requisition line	Requisition Quantity & Dollars	X	X	X	X	X		
Purchase Orders	1 row per PO line	PO Quantity & Dollars	Χ	X	Χ	X	X	X	X
Shipping Notifications	1 row per shipping notice line	Shipped Quantity	X	Χ	Χ		Χ	Χ	X
Warehouse Receipts	1 row per receipt line	Received Quantity	Χ	Χ	Χ		X	Χ	Χ
Vendor Invoices	1 row per invoice line	Invoice Quantity & Dollars	X	Χ	Χ	X	Χ	Χ	
Vendor Payments	1 row per payment	Invoice, Discount & Net Payment Dollars	Х	Χ	Χ	Χ		X	



Figure 17

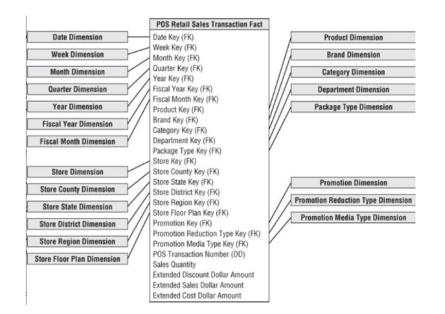
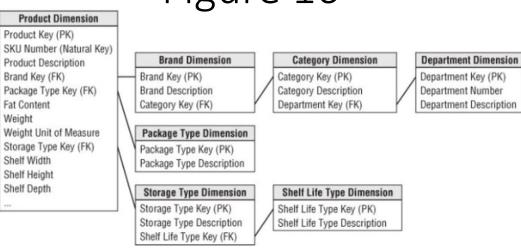
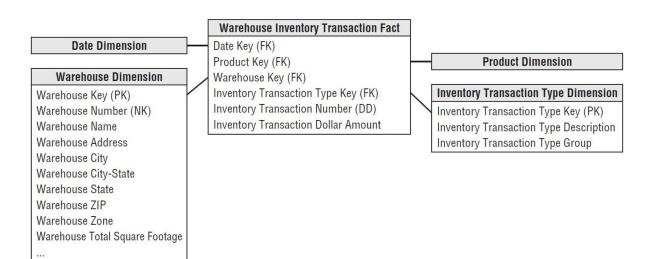


Figure 16





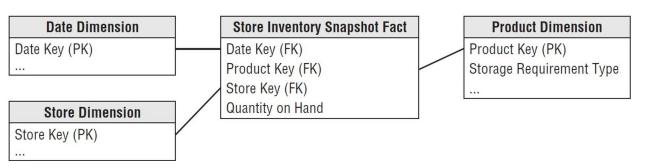


Figure 20

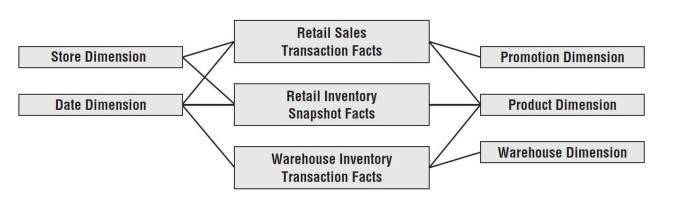
Fact row inserted when lot received:

Lot Receipt Number	Date Received Key	Date Inspected Key	Date Bin Placement Key	Product Key	-,	Receipt to Bin Placement Lag
101	20130101	0	0	1	100	

Fact row updated when lot inspected:

Lot Receipt Number	Date Received Key		ate Inspected Date Bin Pr ey Placement Key Ke		,		Receipt to Bin Placement Lag
101	20130101	20130103	0	1	100	2	

Figure 21



	Transaction	Periodic Snapshot	Accumulating Snapshot
Periodicity	Discrete transaction point in time	Recurring snapshots at regular, predictable intervals	Indeterminate time span for evolving pipeline/workflow
Grain	1 row per transaction or transaction line	1 row per snapshot period plus other dimensions	1 row per pipeline occurrence
Date dimension(s)	Transaction date	Snapshot date	Multiple dates for pipeline's key milestones
Facts	Transaction performance	Cumulative performance for time interval	Performance for pipeline occurrence
Fact table sparsity	Sparse or dense, depending on activity	Predictably dense	Sparse or dense, depending on pipeline occurrence
Fact table updates	No updates, unless error correction	No updates, unless error correction	Updated whenever pipeline activity occurs