MODELLING ASSIGNMENT 3

❖ The **Contoso Sales** data model in your PBIX file follows a **Star Schema**.

❖ Why It's a Star Schema:-

- ➢ All dimension tables are directly connected to the fact table.
- ➢ Dimensions are denormalized (e.g., DimProduct includes category, subcategory, and product).
- ➢ It simplifyies querying and is optimized for reporting tools like Power BI.

Feature	Observed in Contoso Sales
Central Fact Table	Yes — Sales or FactSales
Multiple Dimension Tables	Yes — DimProduct, DimCustomer, DimDate, etc.
Direct relationships to fact table	Yes
No normalization in dimensions	Yes — flat, descriptive tables like products or customers are not broken into subtables

Manage relationships

+ **New relationship**   ⚡ Autodetect   ✏️ Edit   🗑 Delete   ≡ Filter ⌄

☐	From: table (column) ↑	Relationship	To: table (column)	Status	
☐	Product (ProductSubcategory...	* —◀▶— 1	ProductSubcategory (ProductS...	Active	⋯
☐	ProductSubcategory (Product...	* —◀▶— 1	ProductCategory (ProductCate...	Active	⋯
☐	Sales (channelKey)	* —◀▶— 1	Channel (Channel)	Active	⋯
☐	Sales (DateKey)	* —◀— 1	📅 Calendar (DateKey)	Active	⋯
☐	Sales (ProductKey)	* —◀▶— 1	Product (ProductKey)	Active	⋯
☐	Sales (PromotionKey)	* —◀▶— 1	Promotion (PromotionKey)	Active	⋯
☐	Sales (StoreKey)	* —◀▶— 1	Stores (StoreKey)	Active	⋯
☐	Stores (GeographyKey)	* —◀▶— 1	Geography (GeographyKey)	Active	⋯

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Data

Properties

Tables   Model

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> ProductSubcategory
> Promotion
> Sales
> Stores

ProductCategory
ProductCategory
ProductCategoryKey
Collapse ^

ProductSubcategory
ProductCategoryKey
ProductSubcategory
ProductSubcategoryKey
Collapse ^

Product
BrandName
ClassName
Manufacturer
ProductDescription
ProductKey
ProductName
ProductSubcategoryKey
Σ UnitCost
Σ UnitPrice
Collapse ^

Stores
CloseReason
Σ EmployeeCount
GeographyKey
Σ SellingAreaSize
Status
StoreKey
StoreName
StoreType
Collapse ^

Sales
channelKey
DateKey
DiscountAmount
DiscountQuantity
ProductKey
PromotionKey
Σ ReturnAmount
Σ ReturnQuantity
Σ SalesAmount
Collapse ^

Channel
Channel
ChannelName
Collapse ^

Geography
ContinentName
GeographyKey
GeographyType
RegionCountryName
Collapse ^

Calendar
Σ DateInt
DateKey
Σ DayOfMonth
DayOfWeekName
MonthName
Σ MonthOfYear
Σ QuarterOfYear
Σ Year
Collapse ^

Promotion
Σ DiscountPercent
EndDate
PromotionKey
PromotionLabel
PromotionName
StartDate
Collapse ^

All tables

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