Modeling Data with Power Pivot







Graphical User Interface

Select Tables and Columns

Choosing Cardinality

Cross Filters



Power BI: Introduction to **Business Analytics**

Course Author: Joshua Michalik

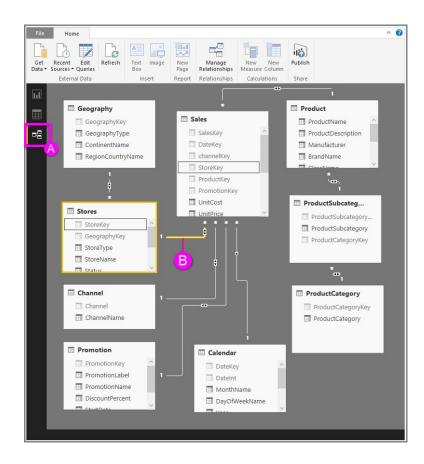
Select Tables and Columns

Select First Table

Choose Column

Select Second Table

Choose Column





Choosing Cardinality

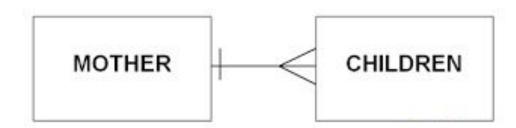
Many to 1 relationships

1 to 1 relationships

1 to Many relationships

Many to Many relationships

One-to-many (or many-to-one) relationships

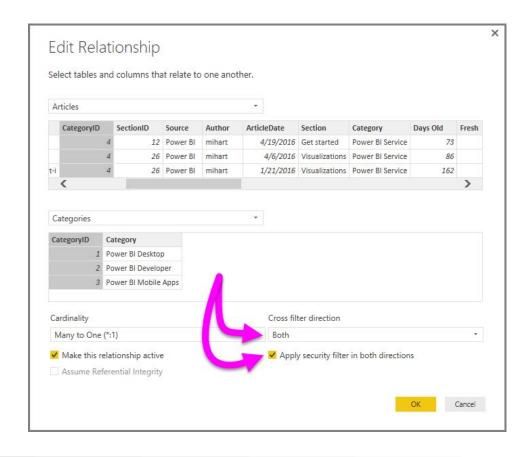




Cross Filters

Filter Single-Side

Filter Bi-Directional Tables





Preparing Source Data

Setting Up Data from One Source

Setting Up Data from Many Sources



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Setting Up Data from One Source

Name the Columns

Set Data Types

Import Multiple Pages

Verify All Data has Same Number and Name of Columns



Setting Up Data from Many Sources

Name the Column

Set Data Types

Import Various Sources



Efficient Queries

Static Files VS Live Data

Measured VS Calculated Columns

All Data VS Needed Data



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Measured VS Calculated Columns

Measured

Aggregated Data Loads Entire Dataset

First

Calculated at Run-Time

Calculated

Based Only on Current Row's Data

Calculated as Data is Loaded



Static Files VS Live Data

Static Files Live Data

Doesn't Change Constant Updates

Easier on Processor Harder on Processor



All Data VS Needed Data

ΑII	Data
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Collects and Prepares Everything

Harder on Processor

Needed Data

Collects only the Tables and Columns

Used

Easier on Processor

More Efficient

