

Excel: Next Level Skills
Power Query, the Data Model & More

With Melissa Esquibel Author of Dirty Data



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Roadmap

- ▲Setting yourself up for success: clean data
- ▲The Data Model: connecting this with that
- ▲Power Query: Merge and Append Queries
- ■Tips for fixing what's broken
- ■Pivoting a Data Model

Setting Yourself up for Success: Clean Data

- ■One row: one record
- ■No merged cells
- ■Single-row column titles
- ▲Consistent data types
- ▲No completely blank rows or columns



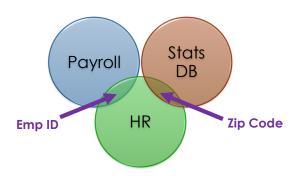
Need some help? Available online from Amazon, Target & Barnes & Noble

Shortcuts to Test the Wholeness of Your Data

- ■From the 1st cell, Ctrl+↓
 - oShould go to the last row of data
 - olt will stop at a blank cell
- ▲From the leftmost column, Ctrl+→
 - oShould to the last column of data
 - olt will stop at a blank cell
- ▲From any cell, Ctrl+A
 - oShould select your entire dataset
 - oEven with blank cells in the middle

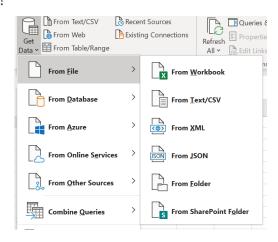
The Data Model: Connecting This with That

- ■Data model is a structure that you can
- ■Use to create reports and insights.
- ■You don't have to see it to know it's there.



How to Get Data for Your Model

- ▲From within a workbook
- ■Between workbooks
- ▲From almost anywhere!



From almost anywhere!

▲Azure▲SQL Server▲Oracle▲Sybase

⊿SAP

⊿IBM DB2

⊿Facebook

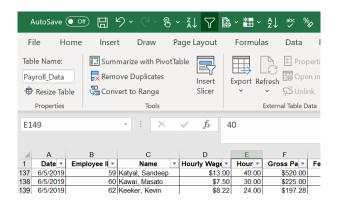
⊿Salesforce

⊿SharePoint

▲Text files

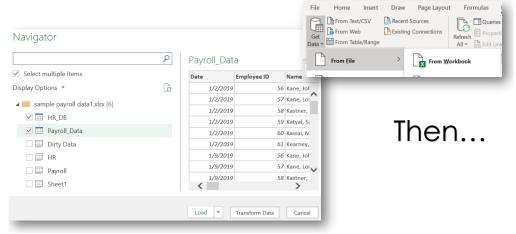
From Within a Workbook

- ▲Make data into tables (Ctrl+T)
- ■Name tables
- ▲Get & Transform: From Table/Range



Between Workbooks

- ▲Convert ranges to tables
- ▲Get & Transform, Get Data, From File
- ▲Select tables, Load or Load to...



Create Relationships

- ▲From ribbon
- ▲From Power Query Edit and create merge query

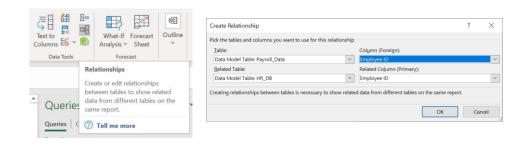
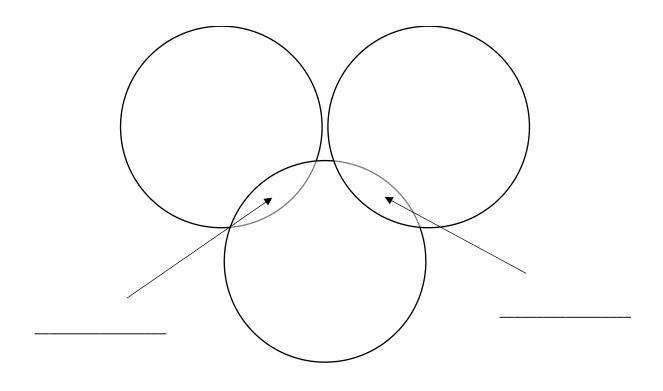


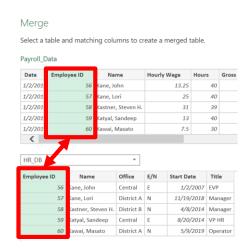
Diagram Your Data Model



From Power Query

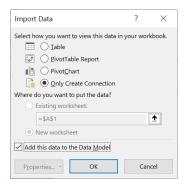
- ■Select table
- ▲Click Merge Queries
- ■Select related field in each dataset
- ■Expand connected table
- ▲Choose all or some fields





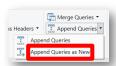
Close & Load

- ▲Close & Load may create "extra" tables
- ■Close & Load To... creates connection and/or adds to Data Model



Append Queries

- ■Get data from "like" datasets ∘Like column titles ∘Like structure
- **⊿**Transform
- ▲Click Append Queries, ...as New
- ▲Close & Load or Load To...
- ■New Worksheet





Navigator

✓ Select multiple items

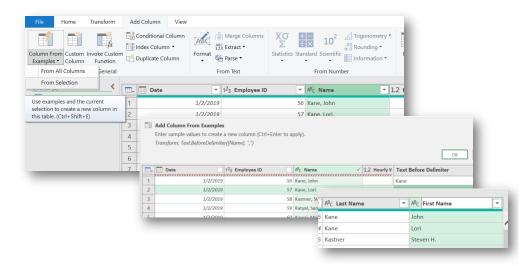
■ Quarterly Payroll.xlsx [6]
■ Payroll_FEB

✓ Ⅲ Payroll_JAN
✓ Ⅲ Payroll_MAR

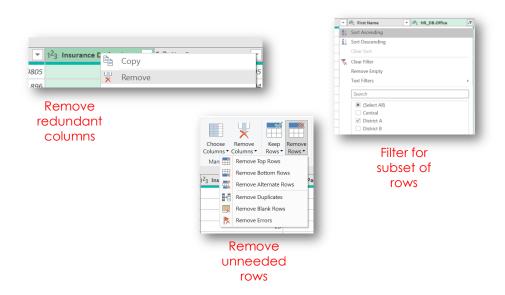
Tips for Fixing What's Broken

- ■Doing the hard work once
 - oSteps get recorded
 - oRefresh reruns the steps
- ■Using the New Columns feature
- ▲Removing columns and rows

Using the New Columns Feature



Removing Columns and Rows

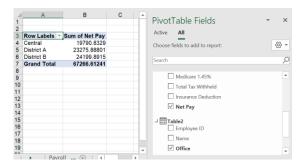


Pivoting a Data Model

- ■Using fields with multiple datasets
- ▲The importance of relationships

Pivot Table 101

- Insert tab
- Tables group
- Pivot Table
- This workbook's Data Model



What types of reports can you generate with your data in this configuration?

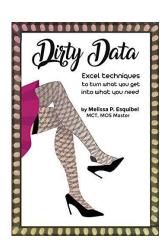
Check out Watch & Learn, too!



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Thank you!

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