

# **My Learning Experience in the Past Four Weeks**

**Excel, Azure DevOps, and Database Design**

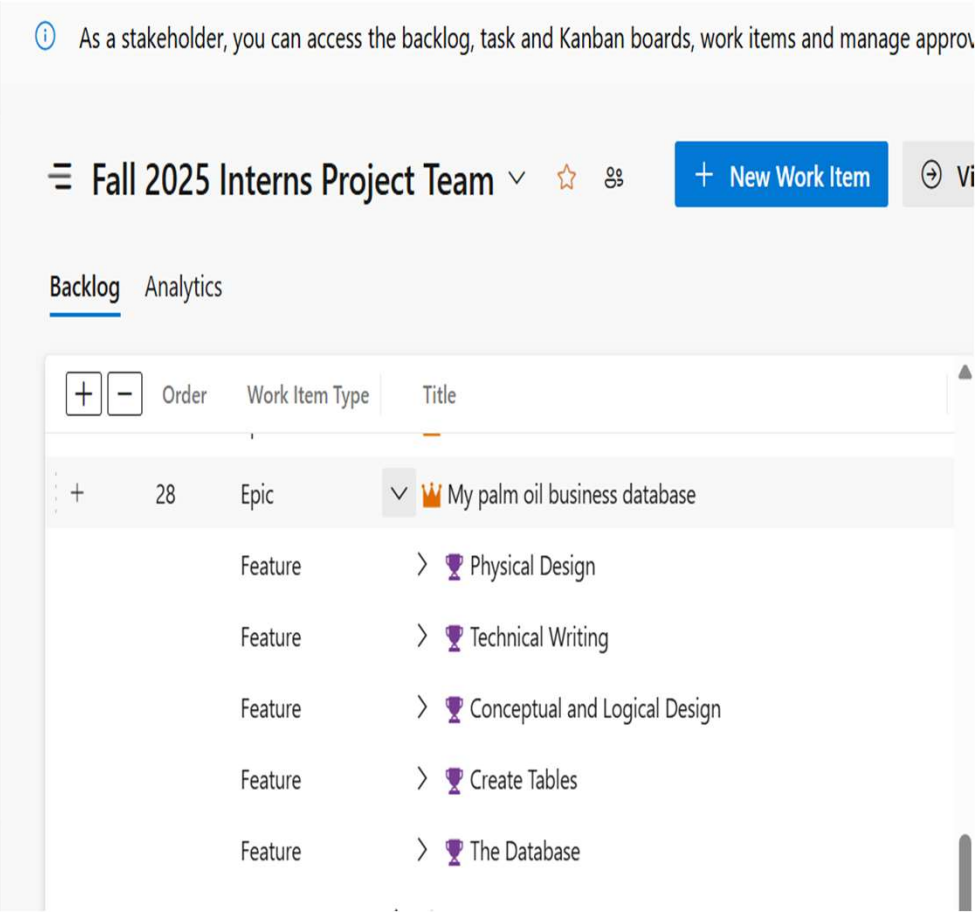
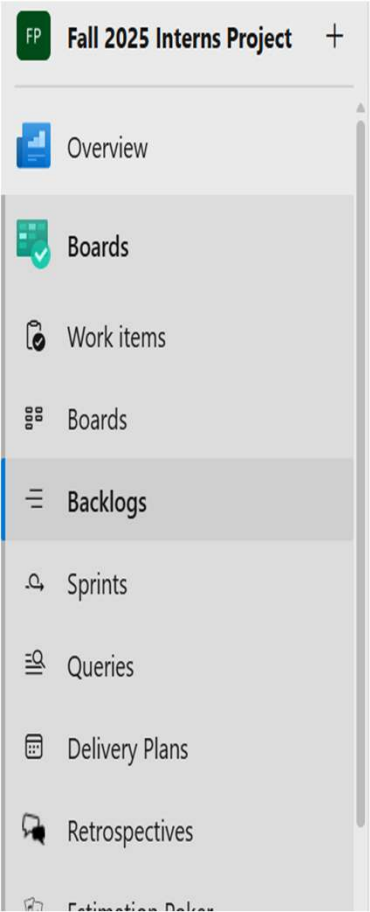
***Ogochukwu Ebele***

# Azure DevOps Experience

## Azure DevOps Experience

### Bullet points:

- Working on Azure DevOps interface with team members
- Breaking down projects into smaller tasks
- Creating epics, features, and PBIs
- Shuffling tickets on the board and working on committed tasks
- Completing tasks and closing them on sprint



# Screenshots Of Azure DevOps Experience

**Fall 2025 Interns Project**

As a stakeholder, you can access the backlog, task and Kanban boards, work items and manage approvals.

**Fall 2025 Interns Project Team**

**Backlog** Analytics

Order	Work Item Type	Title
28	Epic	My palm oil business database
	Feature	Physical Design
	Feature	Technical Writing
	Feature	Conceptual and Logical Design
	Feature	Create Tables
	Feature	The Database

**Fall 2025 Interns Project Team**

**Backlog** Analytics

Order	Work Item Type	Title
28	Epic	My palm oil business database
	Feature	Physical Design
	Product Backlog Item	Inventory Table
	Product Backlog Item	Product Table
	Product Backlog Item	Customer Table
	Product Backlog Item	Order Detail Table
	Product Backlog Item	Supplier Table
	Product Backlog Item	Shipment Table

As a stakeholder, you can access the backlog, task and Kanban boards, work items and manage approvals for Releases. [Learn more](#)

**Fall 2025 Interns Project Team**

**Board** Analytics

Backlog items

Approved	Committed	Dev/DA Doing	Dev/DA Done
<b>26/20</b> Approved Martin Effort: 3 1/1	<b>1/20</b> publishing of Article Committed Ogochukwu 1531 Create database documentation Committed Ogochukwu 0/5 1612 How to create a database for a school database Committed Emeka Nnodim	<b>0/20</b>	<b>42/20</b> Approved Martin Effort: 3 1/1 1590 Transactions Table Approved Jemimah Effort: 2 1/1 1583 Create Transactions Table

**Fall 2025 Interns Project Team**

**Taskboard** Backlog Analytics

Fall Sprint 1 Person: All

20 October - 13 November  
5 work days remaining

Filter by keyword Types Ogochukwu States Tags Area Parent Work Item

Collapse all To Do In Progress Done

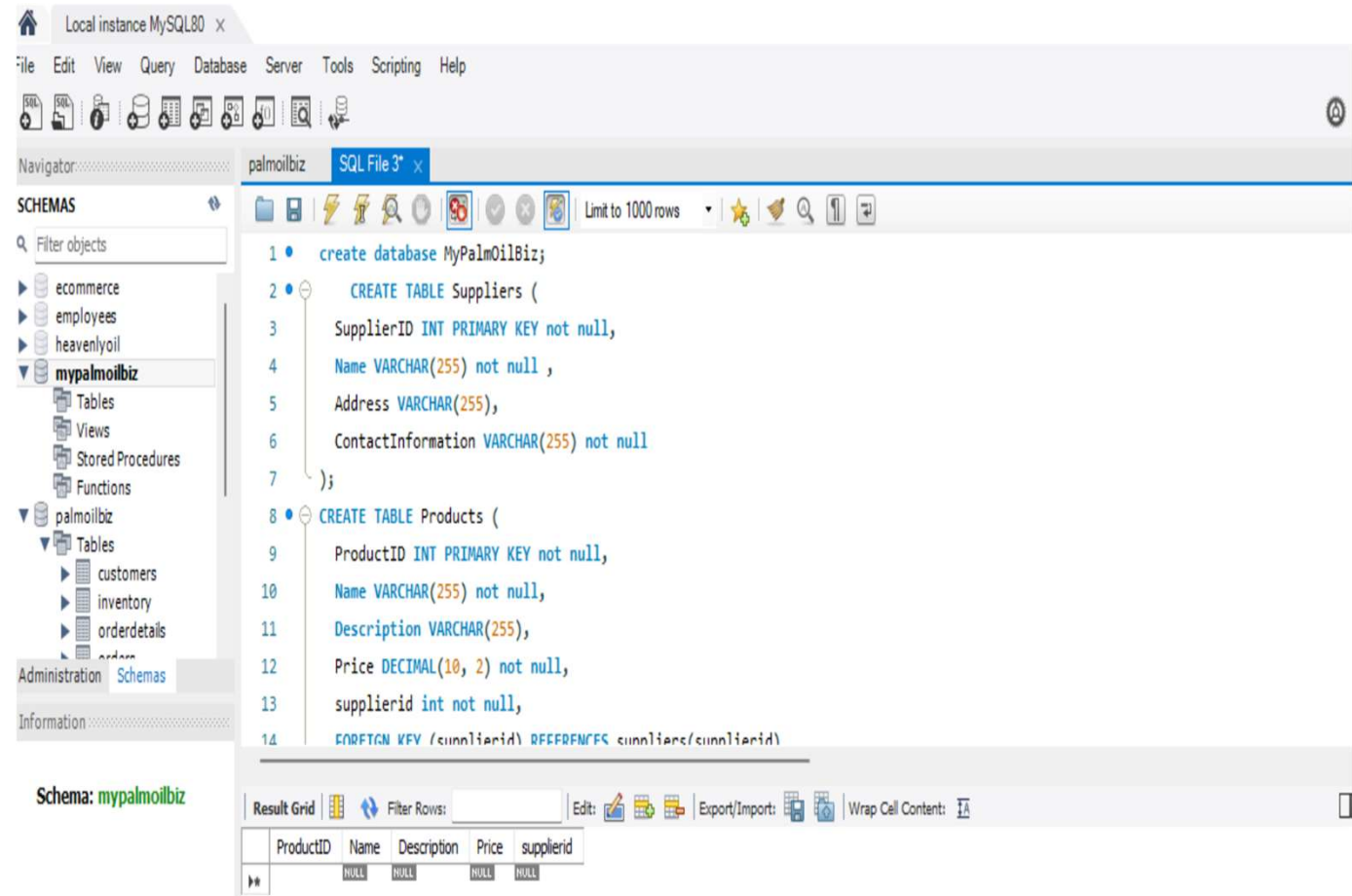
1531 Create database documentation Committed Ogochukwu			
1525 Inventory Table Approved Ogochukwu			1641 add the constraint Done Ogochukwu

# Database Design Project

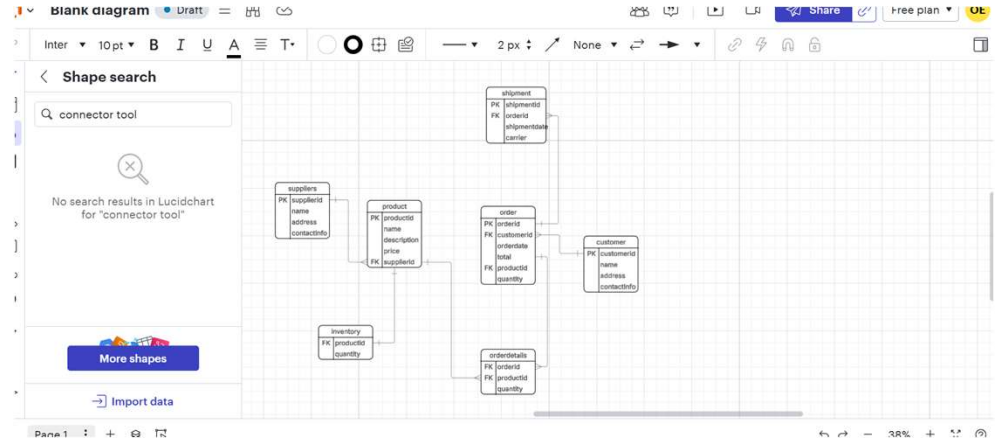
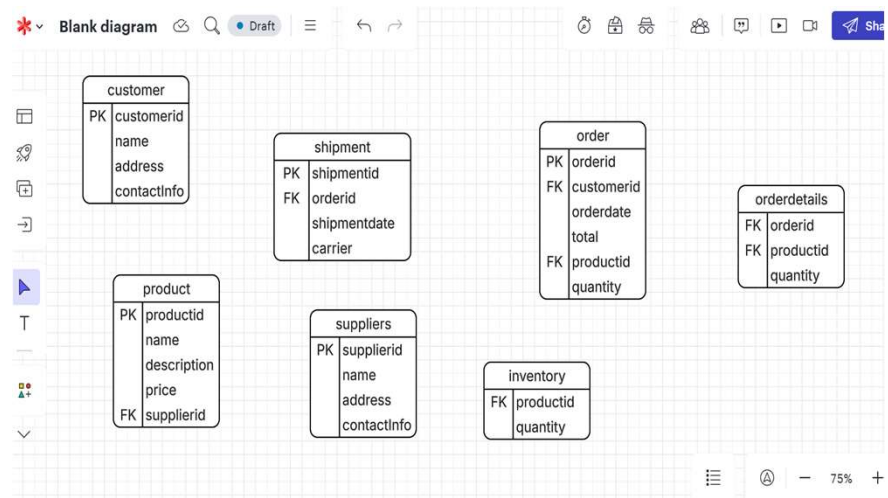
## Database Design Project

### Bullet points:

- Designing a palm oil database
- Gathering entities and relations
- Creating ERD on Lucid Chart
- Implementing database on MySQL Workbench
- Writing articles on database design steps



# Screenshots of ERD, Database Design On MySQL Workbench, Technical Writing



## Conceptual Stage:

The conceptual stage involves identifying entities, attributes, and relationships. For my palm oil distribution business, the entities are:

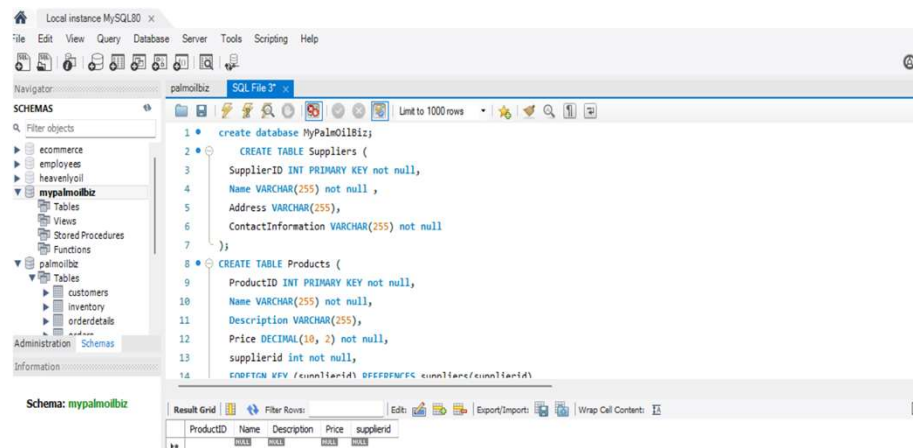
- **Suppliers**: Palm oil suppliers
- **Products**: Different types of palm oil products (crude palm oil, refined palm oil, etc)
- **Customers**: Food manufacturers, restaurants, retailers, and wholesalers
- **Orders**: Customer orders for palm oil products
- **Shipments**: Palm oil shipments to customers
- **Inventory**: Current stock levels of palm oil products

## Relationships:

- Suppliers provide products
- Customers place orders for products
- Orders are associated with specific products and quantities

## Business Rules:

- A supplier provides products.
- A product has a single inventory record.
- A customer places orders.
- An order can have multiple products with quantities.
- A product can be part of many orders.
- An order can have multiple shipments.



# Excel Learning Objectives

## Excel Skills Acquired

### Bullet points:

- Converting range to Table by using Ctrl + T
- Converting tables to ranges
- Using Paste Values to override formulas
- Highlighting and deleting duplicate rows
- Data validation
- Calculating subtotal by groups
- Sorting and filtering data
- Creating charts from tables

The screenshot shows the Microsoft Excel interface. The top ribbon includes File, Home, Insert, Draw, Page Layout, Formulas, Data, Review, View, Automate, Help, and Power Pivot. The Home ribbon is active, showing options for Paste, Clipboard, Font, Alignment, and Number. A data range is selected, and a 'Create Table' dialog box is open, asking 'Where is the data for your table?' with the range '\$A\$1:\$F\$9' entered. The checkbox 'My table has headers' is checked. The background data is as follows:

Division	Category	Jan	Feb	Mar	Total Sales
East	Technical Support	\$ 800.00	\$ 650.00	\$ 700.00	\$ 2,150.00
East	Telephone	\$ 900.00	\$ 850.00	\$ 850.00	\$ 2,600.00
East	Copying	\$ 4,850.00	\$ 3,200.00	\$ 1,155.00	\$ 9,205.00
East	Overhead	\$ 1,250.00	\$ 1,250.00	\$ 1,250.00	\$ 3,750.00
East	Software	\$ 2,025.00	\$ 2,200.00	\$ 1,650.00	\$ 5,875.00
East	Maintenance	\$ 1,350.00	\$ 1,500.00	\$ 1,700.00	\$ 4,550.00
East	Supplies	\$ 3,300.00	\$ 3,500.00	\$ 3,700.00	\$ 10,500.00
East	Telemarketing	\$ 3,825.00	\$ 3,725.00	\$ 3,750.00	\$ 11,300.00
East	Contractors	\$ 8,900.00	\$ 10,315.00	\$ 5,250.00	\$ 24,465.00
East	Consultants	\$ 6,250.00	\$ 6,000.00	\$ 6,500.00	\$ 18,750.00
East	Rent	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 24,000.00
East	Miscellaneous	\$ 11,500.00	\$ 12,500.00	\$ 12,500.00	\$ 36,500.00

Below the screenshot, the 'Table Design' ribbon is shown, displaying options for Table Name (Table3), Table Style Options (Header Row, Total Row, Banded Rows, Filter Button, First Column, Last Column, Banded Columns), and various tools like Summarise with PivotTable, Remove Duplicates, Insert Slicer, Export, Refresh, Open in Browser, and Unlink. The background data is the same as above, but with an additional column 'Jan' added to the table structure.



# Converting Table to Range and Replacing Formular with Values

Excel screenshot showing the 'Table Design' tab. The 'Convert to Range' option is highlighted in the 'Tools' group. A tooltip explains: 'Convert to Range: Convert this table into a normal range of cells. All of the data is preserved.'

Division	Category	Jan	Feb	Mar	Total Sales
East	Technical Support	\$ 800.00	\$ 650.00	\$ 700.00	\$ 2,150.00
East	Telephone	\$ 900.00	\$ 850.00	\$ 850.00	\$ 2,600.00
East	Copying	\$ 4,850.00	\$ 3,200.00	\$ 1,155.00	\$ 9,205.00
East	Overhead	\$ 1,250.00	\$ 1,250.00	\$ 1,250.00	\$ 3,750.00
East	Software	\$ 2,025.00	\$ 2,200.00	\$ 1,650.00	\$ 5,875.00
East	Maintenance	\$ 1,350.00	\$ 1,500.00	\$ 1,700.00	\$ 4,550.00
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East	Contractors	\$ 8,900.00	\$ 10,315.00	\$ 5,250.00	\$ 24,465.00
East	Consultants	\$ 6,250.00	\$ 6,000.00	\$ 6,500.00	\$ 18,750.00
East	Rent	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 24,000.00
East	Miscellaneous	\$ 11,500.00	\$ 12,500.00	\$ 12,500.00	\$ 36,500.00

Excel screenshot showing the 'Home' tab. The 'Paste' dropdown menu is open, and 'Paste Values' is selected. The formula bar shows '=SUM(C7:E7)'. The table is now a standard range.

Division	Category	Jan	Feb	Mar	Total Sales
East	Technical Support	\$ 800.00	\$ 650.00	\$ 700.00	\$ 2,150.00
East	Telephone	\$ 900.00	\$ 850.00	\$ 850.00	\$ 2,600.00
East	Copying	\$ 4,850.00	\$ 3,200.00	\$ 1,155.00	\$ 9,205.00
East	Overhead	\$ 1,250.00	\$ 1,250.00	\$ 1,250.00	\$ 3,750.00
East	Software	\$ 2,025.00	\$ 2,200.00	\$ 1,650.00	\$ 5,875.00
East	Maintenance	\$ 1,350.00	\$ 1,500.00	\$ 1,700.00	\$ 4,550.00
East	Supplies	\$ 3,300.00	\$ 3,500.00	\$ 3,700.00	\$ 10,500.00
East	Telemarketing	\$ 3,825.00	\$ 3,725.00	\$ 3,750.00	\$ 11,300.00
East	Contractors	\$ 8,900.00	\$ 10,315.00	\$ 5,250.00	\$ 24,465.00

Excel screenshot showing the 'Home' tab. The 'Paste' dropdown menu is open, and 'Paste Values' is selected. The formula bar shows '=SUM(C2:E2)'. The table is now a standard range.

Division	Category	Jan	Feb	Mar	Total Sales
East	Technical Support	\$ 800.00	\$ 650.00	\$ 700.00	\$ 2,150.00
East	Telephone	\$ 900.00	\$ 850.00	\$ 850.00	\$ 2,600.00
East	Copying	\$ 4,850.00	\$ 3,200.00	\$ 1,155.00	\$ 9,205.00
East	Overhead	\$ 1,250.00	\$ 1,250.00	\$ 1,250.00	\$ 3,750.00
East	Software	\$ 2,025.00	\$ 2,200.00	\$ 1,650.00	\$ 5,875.00
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East	Telemarketing	\$ 3,825.00	\$ 3,725.00	\$ 3,750.00	\$ 11,300.00
East	Contractors	\$ 8,900.00	\$ 10,315.00	\$ 5,250.00	\$ 24,465.00

# Highlighting and Deleting Duplicates Rows

File Home Insert Draw Page Layout Formulas Data Review View Automate Help

Clipboard Font Alignment Number Conditional Formatting Insert Find & Select

Conditional Formatting > Highlight Cells Rules > Duplicate Values...

	A	B	C	D	E
40	1949	Sampson	Carla	SA	carlas
41	1949	Sampson	Carla	SA	carlas
42	1067	Scote	Gail	AT	gails
43	1299	Simpson	Sandrae	MF	sandraes
44	1302	Sindole	Randy	MK	randys
45	1922	Smith	Barbara	SA	barbaras
46	1310	Smith	Ellen	MF	ellens
47	9999	Smith	Hazel	SA	hazelg
48	1054	Smith	Howard	AT	howards
49	1333	Szcznyck	Tadeuz	HR	tadeuzs
50	1572	Tuppmann	Lise-Anne	SA	lise-annt
51	1329	Vuanuo	Tuome	AC	tuomev

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1293	Jonwith	Brent	HR	brentc	205	Building 3	14-Sep-84										
1672	Dillon-Waite	Sherrie	MF	sherried	114	Building 1	16-Apr-90										
1960	Fontaine	Jean	MF	jeanf	150	Building 1	13-Nov-86										
1975	Franklin	Larry	AC	larryf	125	Building 2	01-Mar-96										
1056	Gonzales	Joe	AT	joe	121	Building 1	25-Oct-79										
1078	Hapsbuch	Kendrick	AC	kendrickh	101	Building 2	01-Apr-86										
1078	Hapsbuch	Kendrick	AC	kendrickh	101	Building 2	01-Apr-86										
1152	Henders	Mark	AD	markh	118	Building 2	21-Jan-90										
1075	Kane	Sheryl	AD	sheryk	126	Building 2	07-Aug-92										
1509	Kegler	Pam	AT	pamk	135	Building 1	19-Jun-85										
1529	Kellerman	Tommie	MK	tomk	129	Building 1	28-Jan-87										
1656	Kourios	Theo	MF	theok	149	Building 1	14-Dec-87										
1426	Lampstone	Pete	SA	petel	128	Building 3	08-Sep-77										
1426	Lampstone	Pete	SA	petel	128	Building 3	08-Sep-77										
1984	MacDonald	Bronwyn	SA	bronm	204	Building 3	01-Dec-97										
1676	Miller	Janet	MK	janetm	115	Building 1	26-Oct-81										
1995	Mivelli	Maria	AT	mariam	198	Building 1	01-Mar-98										
1359	Morton	Norman	SA	normanm	153	Building 3	09-Aug-90										
1931	Mueller	Ursula	AC	ursulam	110	Building 2	20-Jun-89										
1723	Sammler	Mark	MK	marks	145	Building 1	10-Feb-78										
1949	Sampson	Carla	SA	carlas	147	Building 3	12-Oct-81										
1949	Sampson	Carla	SA	carlas	147	Building 3	12-Oct-81										
1067	Scote	Gail	AT	gails	123	Building 1	20-Sep-87										
1299	Simpson	Sandrae	MF	sandraes	127	Building 1	21-Dec-89										
1302	Sindole	Randy	MK	randys	139	Building 1	06-Aug-84										

File Home Insert Draw Page Layout Formulas Data Review View Automate Help

Get & Transform Data Queries & Connections Data Types Sort & Filter Data Tools Forecast

Remove Duplicates  
Delete duplicate rows from a sheet.  
You can pick which columns should be checked for duplicate information.

	A	B	C	D	E	F	G	H	I	J	K	L
1	Emp ID	Last Name	First Name	Dept	E-mail	Phone Ext	Location	Hire Date				
2	1814	Al-Sabah	Daoud	HR	daouda	103	Building 3	04-Mar-89				
3	1721	Alstain	Isolde	HR	isoldea	102	Building 3	06-Aug-90				
4	1999	Atherly	Katherine	HR	kathya	428	Building 3	05-Jul-98				
5	1196	Atherton	Katie	HR	kathea	289	Building 3	01-Apr-98				
6	1906	Bankler	Rowena	SA	rowenab	155	Building 3	28-Sep-89				
7	1792	Barton	Eileen	AT	eileenb	111	Building 1	24-Dec-90				
8	1516	Bell	Tom	AC	tomb	105	Building 2	06-Mar-85				
9	1284	Bellwood	Frank	MK	frankb	124	Building 1	04-Jan-85				
10	1982	Benwick	Elaine	SA	ebenwick	202	Building 3	03-Apr-97				
11	1167	Benwick	Sam	SA	samb	119	Building 3	18-Apr-91				
12	1673	Boughton	Frank	AD	fboughton	112	Building 2	25-Mar-92				
13	1758	Brwyne	Melia	AC	meliab	107	Building 2	18-Mar-82				
14	1990	Chang	Jessica	MF	jessc	198	Building 1	14-Feb-98				
15	1290	Cooper	Linda	AD	lindac	113	Building 2	03-Jan-85				
16	1290	Cooper	Linda	AD	lindac	113	Building 2	03-Jan-85				
17	1966	Cortlandt	Charles	SA	charlesc	159	Building 3	13-Apr-82				
18	1983	Conwick	Judy	AT	judy	154	Building 1	28-Jun-97				
19	1964	Conwick	Rob	AC	robertc	108	Building 2	17-Nov-91				
20	1293	Cronwith	Brent	HR	brentc	205	Building 3	14-Sep-84				
21	1672	Dixon-Waite	Sherrie	MF	sherried	114	Building 1	16-Apr-90				
22	1960	Fontaine	Jean	MF	jeanf	150	Building 1	13-Nov-86				
23	1975	Franklin	Larry	AC	larryf	125	Building 2	01-Mar-96				
24	1056	Gonzales	Joe	AT	joe	121	Building 1	25-Oct-79				



# Screenshots of Data Validation, Sorting, and Calculating Sub Totals By Group

This screenshot shows three different Excel scenarios related to data management:

- Data Validation:** A dialog box is open for cell B2, setting the data type to 'Decimal' with a minimum of 10.00 and a maximum of 45.00. The 'Ignore blank' checkbox is checked.
- Sorting:** The 'Sort & Filter' task pane is open, showing options to sort by color, sheet view, or text filters.
- Error Handling:** An 'Error' dialog box is displayed, stating 'Please, enter rate between \$10.00 and \$45.00' for cell B5.

ID NO	MAKE	MODEL	DOORS	AUTO	SMOKE	Rate
2	Chevy	Cavalier	2	n	n	\$19.95
27	Chevy	Cavalier	4	n	n	\$19.95
10	Oldsmobile	Cutlass Supreme	4	n	n	\$24.95
33	Ford	Festiva	2	n	n	\$24.95
14	Pontiac	LeBaron	2	n	n	\$24.95
16	Pontiac	Sunbird	4	n	n	\$19.95
25	Pontiac	Sunbird	2	n	n	\$19.95
3	Ford	Tempo	4	n	n	\$19.95
32	Ford	Tempo	4	n	y	\$19.95
4	Chevy	Astrovan	5	y	n	\$34.95
11	Dodge	Caravan	5	y	n	\$34.95
22	Dodge	Caravan	5	y	n	\$39.95
29	Dodge	Caravan	5	y	n	\$34.95
5	Chevy	Lumina	4	y	y	\$22.95
18	Chevy	Lumina	4	y	n	\$24.95

This screenshot shows the 'Chocolate Chocolate Chip' data table with sorting and subtotals applied:

- Sorting:** The 'Sort & Filter' task pane shows 'Sort A to Z' selected.
- Subtotals:** The 'Subtotals' task pane is open, showing subtotals for 'Sales' by 'Product'.

Salesperson	Product	Units	Price/Unit	Sales
Cattapan	Chocolate Chocolate Chip	99	\$10.00	\$990.00
DeMarcos	Chocolate Chocolate Chip	75	\$11.00	\$825.00
Packet	Chocolate Chocolate Chip	95	\$10.55	\$1,002.25
Patterson	Chocolate Chocolate Chip	52	\$12.00	\$624.00
Sergeto	Chocolate Chocolate Chip	57	\$12.55	\$715.35
Smith	Chocolate Chocolate Chip	70	\$11.00	\$770.00
Wilson	Chocolate Chocolate Chip	73	\$11.60	\$848.80
Cattapan	Fudge Brownie	61	\$13.00	\$793.00
DeMarcos	Fudge Brownie	75	\$12.65	\$948.75
DeMarcos	Fudge Brownie	68	\$12.65	\$860.20
Packet	Fudge Brownie	95	\$10.55	\$1,002.25
Patterson	Fudge Brownie	85	\$11.00	\$935.00
Sergeto	Fudge Brownie	80	\$11.00	\$880.00

This screenshot shows the 'Salesperson' data table with subtotals and data validation applied:

- Subtotals:** The 'Subtotals' task pane is open, showing subtotals for 'Sales' by 'Salesperson'.
- Data Validation:** A dialog box is open for cell B2, setting the data type to 'Text' with a length of 10.

Salesperson	Product	Units	Price/Unit	Sales
Cattapan	Chocolate Chocolate Chip	99	\$10.00	\$990.00
DeMarcos	Chocolate Chocolate Chip	75	\$11.00	\$825.00
Packet	Chocolate Chocolate Chip	95	\$10.55	\$1,002.25
Patterson	Chocolate Chocolate Chip	52	\$12.00	\$624.00
Sergeto	Chocolate Chocolate Chip	57	\$12.55	\$715.35
Smith	Chocolate Chocolate Chip	70	\$11.00	\$770.00
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Cattapan	Fudge Brownie	61	\$13.00	\$793.00
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DeMarcos	Fudge Brownie	68	\$12.65	\$860.20
Packet	Fudge Brownie	95	\$10.55	\$1,002.25
Patterson	Fudge Brownie	85	\$11.00	\$935.00
Sergeto	Fudge Brownie	80	\$11.00	\$880.00

## Screenshots of Importing Data To Excel And Creating Charts In Excel Sheets

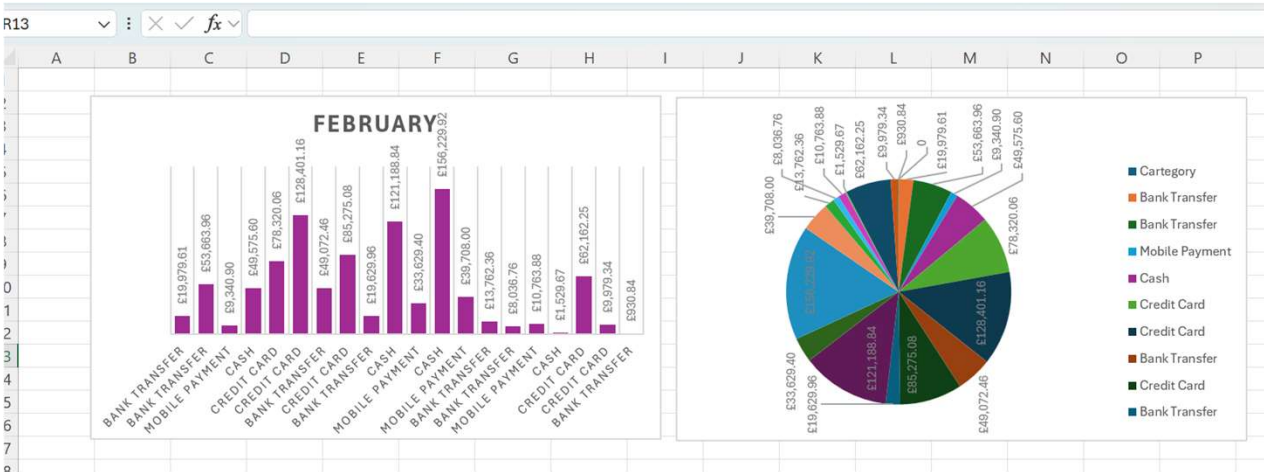
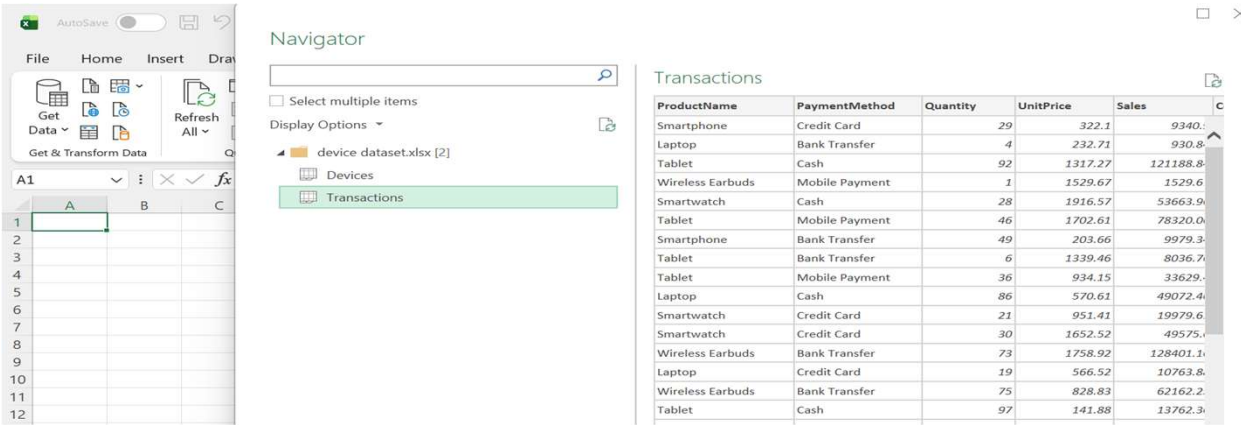


Figure 10-10: Power Query interface showing the 'Get Data' menu and the 'From Excel Workbook' dialog box.

The 'Get Data' menu is open, displaying various data sources. The 'From Excel Workbook' option is selected, opening a dialog box that prompts the user to import data from a Microsoft Excel workbook. The dialog box shows the file path 'H:\I\J\K' and the file name 'Excel Workbook.xlsx'.

The background shows the Power Query interface with the 'Transactions' table loaded. The table has columns for Product Name, Category, and Date. The data is filtered for the month of January.

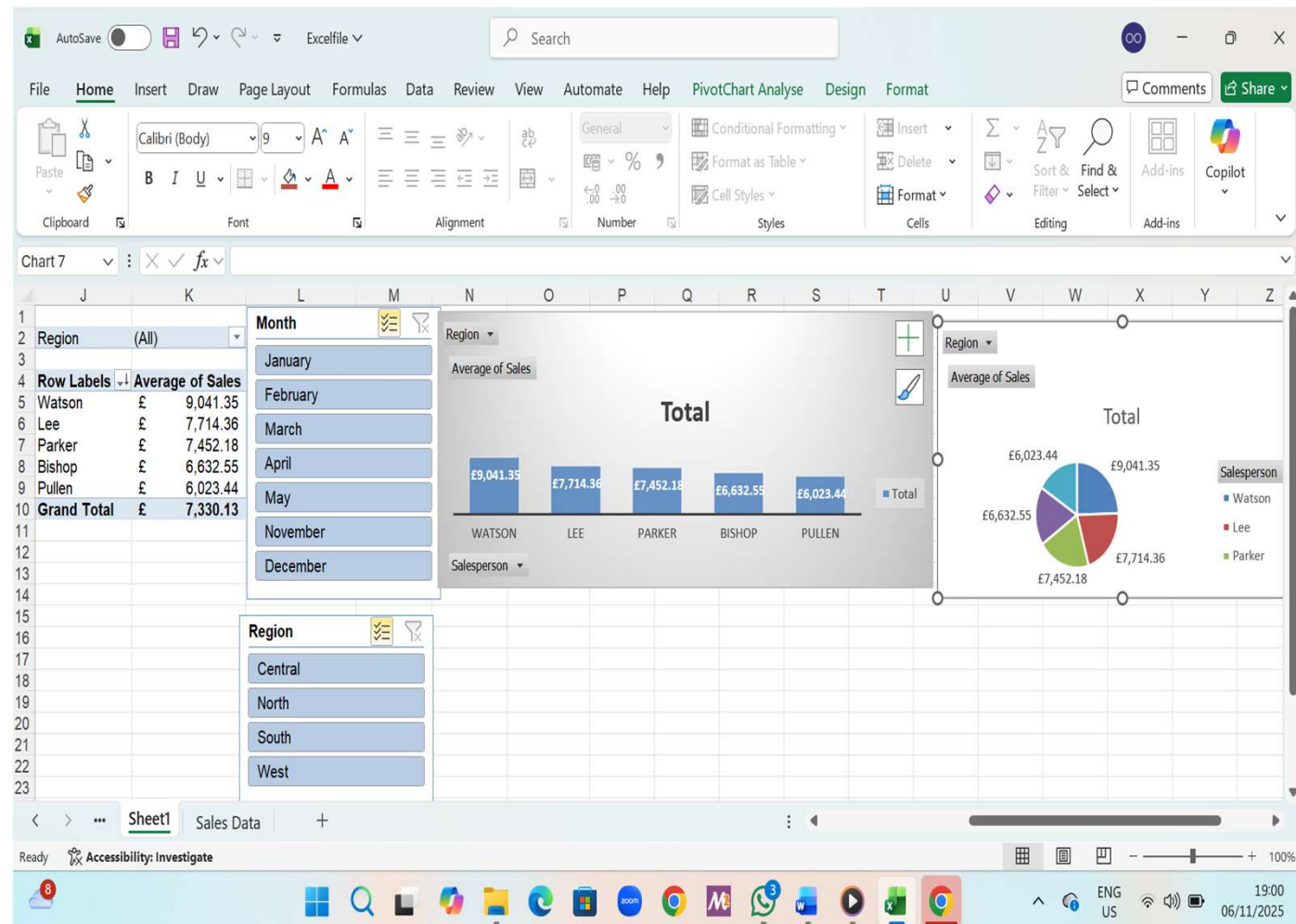
Product Name	Category	January	February	March
Wireless Earbuds	Bank Transfer	£ 1,182.24	£ 19,979.61	£ 22,328.90
Smartwatch	Bank Transfer	£ 7,488.32	£ 53,663.96	£ 119,084.32
Tablet	Mobile Payment	£ 8,091.31	£ 9,340.90	£ 85,275.08
Smartphone	Cash	£ 13,610.52	£ 49,575.60	£ 104,068.80
Tablet	Credit Card	£ 14,235.84	£ 78,320.06	£ 103,508.08
Tablet	Credit Card	£ 14,756.56	£ 128,401.16	£ 7,488.32
Wireless Earbuds	Bank Transfer	£ 15,714.50	£ 49,072.46	£ 174,305.25
Smartwatch	Credit Card	£ 20,979.70	£ 85,275.08	£ 13,610.52
Smartwatch	Bank Transfer	£ 21,419.15	£ 19,629.96	£ 1,182.24
Wireless Earbuds	Cash	£ 22,328.90	£ 121,188.84	£ 4,157.60
Laptop	Mobile Payment	£ 28,357.50	£ 33,629.40	£ 8,091.31
Wireless Earbuds	Cash	£ 29,075.04	£ 156,229.92	£ 15,714.50
Tablet	Mobile Payment	£ 32,129.85	£ 39,708.00	£ 28,357.50
Smartphone	Bank Transfer	£ 39,326.45	£ 13,762.36	£ 62,284.95
Laptop	Bank Transfer	£ 62,284.95	£ 8,036.76	£ 188.44
Tablet	Mobile Payment	£ 71,921.52	£ 10,763.88	£ 14,235.84
Wireless Earbuds	Cash	£ 104,068.80	£ 1,529.67	£ 106,700.44

# Creating And Analyzing Pivot Table

## Pivot Table Best Practices

### Bullet points:

- Ensure column names/headers are present
- Format columns correctly (numbers, accounting, general/text)
- Remove empty rows and aggregation
- Check for duplicates
- Creating Pivot Tables





# Screenshots of Creating Pivot Table From Tables

The screenshot shows the Microsoft Excel interface with the 'Insert' tab selected. The 'PivotTable' button is highlighted, and a tooltip is displayed over it. The tooltip text reads: 'Create a PivotTable from table or range.' The background data table is as follows:

Date	Product	Location	Sales
2013 January	Ice Cream	Bishop	West
2013 January	Frozen Yogurt	Bishop	West
2013 January	Tasty Treats	Lee	Central
2013 January	Frozen Yogurt	Lee	Central
2013 January	Tasty Treats	Lee	Central
2013 January	Ice Cream	Parker	North
2013 January	Ice Cream	Parker	North
2013 January	Ice Cream	Parker	North
2013 January	Ice Cream	Parker	North
2013 January	Popsicles	Pullen	South
2013 January	Popsicles	Pullen	South
2013 January	Frozen Yogurt	Watson	Central
2013 January	Tasty Treats	Watson	Central
2013 January	Frozen Yogurt	Watson	Central
2013 January	Tasty Treats	Watson	Central
2013 February	Ice Cream	Bishop	West
2013 February	Ice Cream	Bishop	West
2013 February	Tasty Treats	Lee	Central
2013 February	Ice Cream	Lee	Central
2013 February	Tasty Treats	Lee	Central
2013 February	Ice Cream	Lee	Central
2013 February	Frozen Yogurt	Parker	North
2013 February	Frozen Yogurt	Parker	North
2013 February	Frozen Yogurt	Parker	North
2013 February	Frozen Yogurt	Parker	North
2013 February	Tasty Treats	Pullen	South
2013 February	Frozen Yogurt	Pullen	South
2013 February	Tasty Treats	Pullen	South
2013 February	Frozen Yogurt	Pullen	South
2013 February	Ice Cream	Watson	Central
2013 February	Popsicles	Watson	Central
2013 February	Ice Cream	Watson	Central

The screenshot shows the Microsoft Excel interface with the 'PivotTable Analyze' tab selected. The 'PivotTable Fields' task pane is open on the right. The task pane shows a list of fields to be added to the report. The fields are: Year, Month, Type, Salesperson, Region, Sales, Units, and Order #. The task pane also shows a 'More Tables...' button and a 'Defer Layout...' button. The background shows a blank worksheet with a PivotTable1 placeholder.

To build a report, choose fields from the PivotTable Field List

PivotTable Fields

Choose fields to add to report:

Search

Filters

Rows

Columns

Values

More Tables...

Defer Layout...

Update



# Screenshots of Pivot Table Analysis

This screenshot shows the Microsoft Excel interface with a PivotTable and the PivotTable Fields task pane. The PivotTable is located in the range A3:B9 and displays sales data by salesperson. The PivotTable Fields task pane is open on the right, showing the available fields and their current placement in the report.

Row Labels	Total Sales
Bishop	£ 596,929.90
Lee	£ 740,578.40
Parker	£ 760,122.80
Pullen	£ 505,968.95
Watson	£ 650,976.90
<b>Grand Total</b>	<b>£ 3,254,576.95</b>

**PivotTable Fields**

Choose fields to add to report:

- ☐ Year
- ☐ Month
- ☐ Type
- ☒ Salesperson
- ☐ Region
- ☒ Sales
- ☐ Units
- ☐ Order #

More Tables...

Drag fields between areas below:

- Filters:**
- Rows:** Salesperson
- Columns:**
- Values:** Total Sales

☐ Defer Layo...

This screenshot shows the Microsoft Excel interface with a PivotTable, a PivotChart, and the Insert Slicers dialog box. The PivotTable is located in the range D3:E9 and displays sales data by salesperson. The PivotChart is located in the range F3:G9 and displays a bar chart of the sales data. The Insert Slicers dialog box is open, showing the available slicer fields and their current placement in the report.

Row Labels	Total Sales
Bishop	£ 596,929.90
Lee	£ 740,578.40
Parker	£ 760,122.80
Pullen	£ 505,968.95
Watson	£ 650,976.90
<b>Grand Total</b>	<b>£ 3,254,576.95</b>

**Insert Slicers**

- ☐ Year
- ☐ Month
- ☐ Type
- ☐ Salesperson
- ☒ Region
- ☐ Sales
- ☐ Units
- ☐ Order #

This screenshot shows the Microsoft Excel interface with a PivotTable, a PivotChart, and a Slicer. The PivotTable is located in the range A3:B9 and displays sales data by salesperson. The PivotChart is located in the range C3:D9 and displays a bar chart of the sales data. The Slicer is located in the range E3:F9 and displays a list of salespersons.

Row Labels	Total Sales
Bishop	£ 596,929.90
Lee	£ 740,578.40
Parker	£ 760,122.80
Pullen	£ 505,968.95
Watson	£ 650,976.90
<b>Grand Total</b>	<b>£ 3,254,576.95</b>

**Slicer**

Region

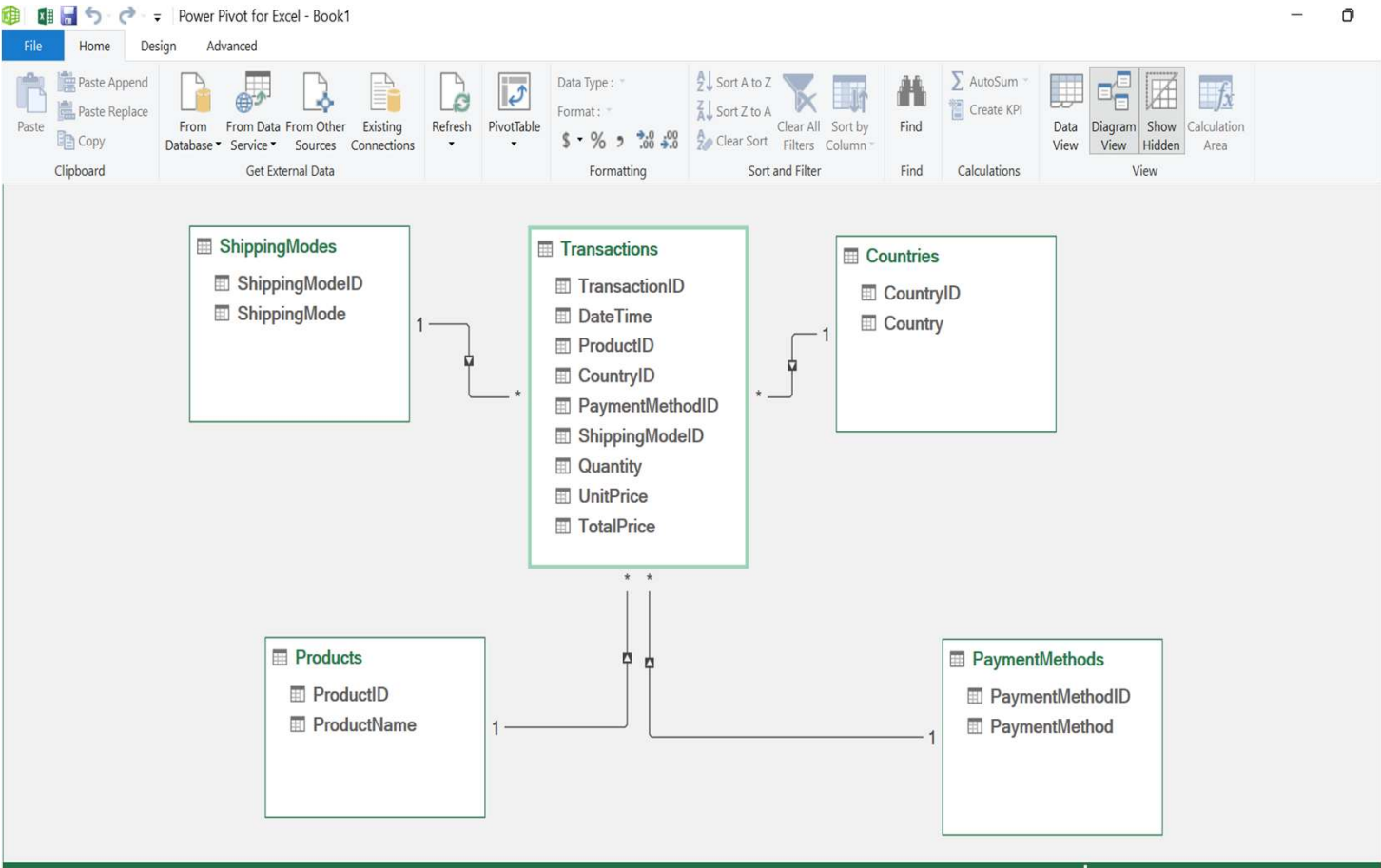
- Central
- North
- South
- West

# Power Pivot and ERD

## Power Pivot and ERD Design

### Bullet points:

- Enabling Excel Power Pivot
- Importing data from datasets
- Designing ERD on Power Pivot



# Importing Data to Excel Power Pivot And Creating Relationships

**Table Import Wizard**

You can either create a connection to a data source, or you can use one that already exists.

- Others (OLEDB/ODBC)**  
Create a connection to a data source by using an OLE DB provider or an OLE DB for ODBC provider. Import data from the tables or views that are returned by the provider.
- Multidimensional Sources**  
**Microsoft Analysis Services**  
Create a connection to a SQL Server Analysis Services cube. Import data returned from an MDX query.
- Data Feeds**  
**Report**  
Create a connection to a Microsoft Reporting Services Report. Import data from the feed.
- Other Feeds**  
Create a connection to a data feed. Import data from the feed.
- Text Files**  
**Excel File**  
Import data from an Excel file.
- Text File**  
Import data from a text file.

< Back Next > Finish Cancel

**Relationship Diagram:**

- ShippingModes**
  - ShippingModelID
  - ShippingMode
- Transactions**
  - TransactionID
  - DateTime
  - ProductID
  - CountryID
  - PaymentMethodID
  - ShippingModelID
  - Quantity
  - UnitPrice
  - TotalPrice
- Countries**
  - CountryID
  - Country
- Products**
  - ProductID
  - ProductName
- PaymentMethods**
  - PaymentMethodID
  - PaymentMethod

Relationships: ShippingModes (1) to Transactions (many); Transactions (1) to Countries (many); Transactions (1) to Products (many); Transactions (1) to PaymentMethods (many).

**Data View**

Switch to Data View of the model. Use this view to perform data-driven tasks such as creating measures and columns.

TransactionID	DateTime	ProductID	CountryID	PaymentMethodID	ShippingModelID	Quantity	UnitPrice	TotalPrice
6b65c2f3-a00d-4912-b659-368be162b4de	28/01/2024...	4	2	4	3	43	1529.67	1529.67
c014baf6-bfc6-...	26/06/2022...	4	2	3	2	23471.1	23471.1	23471.1
bc99075c-403b-...	15/04/2020...	4	2	2	4	29030.4	29030.4	29030.4
9bb0b74c-d8ce-...	27/10/2023...	4	2	1	3	66	1344.51	88737.66
5c4a0fcc-0d9f-...	05/01/2021...	4	2	1	3	49	688.34	33728.66
e8ae702b-e43-...	21/10/2022...	4	2	1	2	14	1409.53	19733.42
64af8acf-cd4e-...	07/12/2024...	4	2	4	4	45	698.26	31421.7
25f8ceae4-9c4a-...	07/11/2022...	4	2	4	1	17	1029.47	17500.99
bd754d04-52f3-...	01/10/2020...	4	2	3	1	6	682.53	4095.18
0c03e213-e371-...	25/04/2023...	4	2	3	1	88	766.3	67434.4
bd257565-b0b-...	18/06/2024...	4	2	2	2	89	1553.64	138273.96
20abcc69-7255-...	07/04/2024...	4	2	1	3	9	1909.14	17182.26
7a8e1ad3-4a9-...	21/07/2020...	4	2	4	1	88	1936.74	170433.12
d3d8dcfc-c91a-...	15/08/2023...	4	2	3	2	41	1729.9	70925.9
0269f00d-ee99-...	20/10/2020...	4	2	3	3	98	836.35	81962.3
4f0c444c-efc-...	22/07/2020...	4	2	2	2	27	4200.5	10454.5

Record: 1 of 5,000

## Conclusion

Summary of what I learnt over the past four weeks:

- Database Design: Palm oil database design
- Azure DevOps: Project management, collaboration
- Excel: Dynamic ranges, pivot tables, charts

**Thank You For Listening**