

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

The screenshot shows the Azure DevOps interface for the 'Fall 2025 Interns Project'. On the left, a sidebar menu lists various project management sections: Overview, Boards, Work items, Boards, Backlogs, Sprints, Queries, Delivery Plans, Retrospectives, and Estimation Details. The 'Backlogs' section is currently selected. The main content area displays the 'Backlog' tab under the 'Fall 2025 Interns Project Team'. A table lists backlog items with columns for Order, Work Item Type, and Title. The table shows the following data:

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

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

+ New Work Item View

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

Boards Work items Boards Backlogs Sprints Queries Delivery Plans Retrospectives

Fall 2025 Interns Project Team

+ New Work Item View

Backlog Analytics

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

Fall 2025 Interns Project Team

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

Board Analytics

26/20 Approved 1/20 Committed 11/20 Dev/DA Doing 0/20 Dev/DA Done 42/20

Category	Count
Approved	26/20
Committed	1/20
Dev/DA Doing	11/20
Dev/DA Done	42/20

View as backlog

Backlog items

Filter by keyword

Types: Ogochukwu States: In Progress Tags: Area: Parent Work Item:

1531 Create database documentation
1590 Transactions Table
1583 Create Transactions Table

1612 How to create a database for a school database
1641 add the constraint

Fall 2025 Interns Project Team

+ New Work Item Column Options

Taskboard Backlog Analytics

Fall Sprint 1 Person: All

20 October - 13 November 5 work days remaining

Filter by keyword

Types: Ogochukwu States: In Progress Tags: Area: Parent Work Item:

To Do In Progress Done

1531 Create database documentation
1590 Transactions Table
1583 Create Transactions Table

1612 How to create a database for a school database
1641 add the constraint

Database Design Project

Database Design Project

Bullet points:

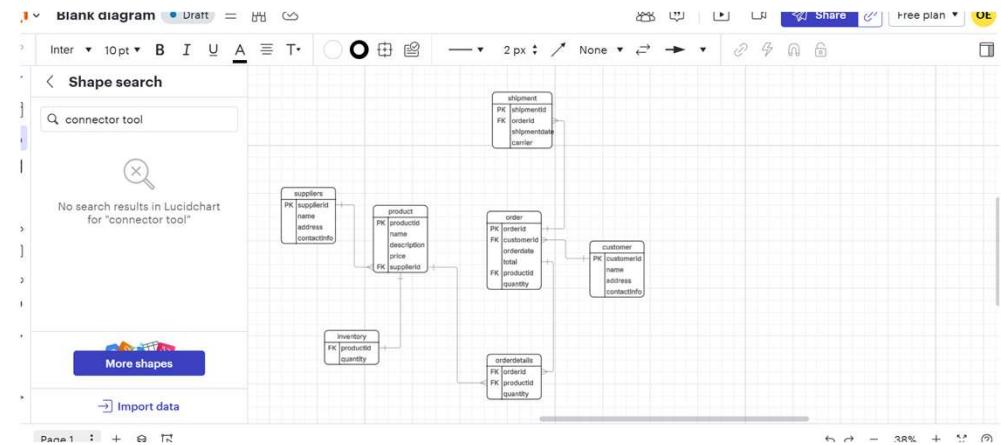
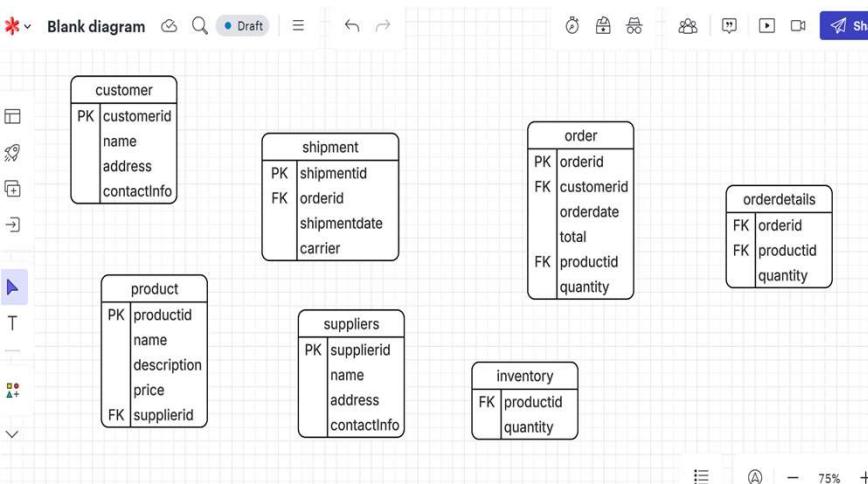
- Designing a palm oil database
- Gathering entities and relations
- Creating ERD on Lucid Chart
- Implementing database on MySQL Workbench
- Writing articles on database design steps

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** Local instance MySQL80, File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Shows the schema tree under "myPalmOilBiz".
 - SCHEMAS:** ecommerce, employees, heavenlyoil, myPalmOilBiz (selected), palmoilbiz.
 - myPalmOilBiz:** Tables, Views, Stored Procedures, Functions.
 - palmoilbiz:** Tables (customers, inventory, orderdetails, order).
- SQL Editor:** SQL File 3* tab, contains the following SQL code:

```
1 • create database MyPalmOilBiz;
2 • Ⓜ CREATE TABLE Suppliers (
3     SupplierID INT PRIMARY KEY not null,
4     Name VARCHAR(255) not null ,
5     Address VARCHAR(255),
6     ContactInformation VARCHAR(255) not null
7 );
8 • Ⓜ CREATE TABLE Products (
9     ProductID INT PRIMARY KEY not null,
10    Name VARCHAR(255) not null,
11    Description VARCHAR(255),
12    Price DECIMAL(10, 2) not null,
13    supplierid int not null,
14    FOREIGN KEY (supplierid) REFERENCES suppliers(supplierid)
```
- Result Grid:** Shows a table with columns: ProductID, Name, Description, Price, supplierid. The data row is: 1, null, null, null, null.

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



```

Local instance MySQL80 x
File Edit View Query Database Server Tools Scripting Help
Navigator: palmoilbiz SQL File 3*
Schemas
Filter objects
ecommerce
employees
heavyoil
mypalmoilbiz
Tables
Views
Stored Procedures
Functions
Administration Schemas
Information
Schema: mypalmoilbiz
Result Grid | Filter Rows | Edits | Export/Import | Wrap Cell Content |
ProductID Name Description Price supplierid
1 NULL NULL NULL NULL
2 NULL NULL NULL NULL
3 NULL NULL NULL NULL
4 NULL NULL NULL NULL
5 NULL NULL NULL NULL
6 NULL NULL NULL NULL
7 NULL NULL NULL NULL
8 NULL NULL NULL NULL
9 NULL NULL NULL NULL
10 NULL NULL NULL NULL
11 NULL NULL NULL NULL
12 NULL NULL NULL NULL
13 NULL NULL NULL NULL
14

```

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 a Microsoft Excel spreadsheet with data in columns A through F. The first few rows contain headers like 'Division' and 'Category'. A context menu is open over the data, with the 'Create Table' option selected. A dialog box asks 'Where is the data for your table?' with the range '\$A\$1:\$F\$59' selected. The 'My table has headers' checkbox is checked. Below the table, the 'Table Design' ribbon tab is active, showing options for table properties and tools. The data table below has a header row and contains various categories and their sales figures across different divisions.

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

Converting Table to Range and Replacing Formular with Values

Screenshot of Excel showing the 'Table Design' ribbon tab selected. A tooltip 'Convert to Range' is displayed over the 'Convert to Range' button in the Tools group. The table structure is as follows:

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

Screenshot of Excel showing the 'Home' ribbon tab selected. The 'Paste' dropdown menu is open, showing options like 'Paste Values'. The formula bar shows '=SUM(C2:E2)'. The table structure is identical to the one above.

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

Screenshot of Excel showing the 'Home' ribbon tab selected. The formula bar shows '=SUM(C7:E7)'. The table structure is identical to the ones above.

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

Screenshot of Excel showing the 'Home' ribbon tab selected. The formula bar shows '2600'. The table structure is identical to the ones above.

	Division	Category	Jan	Feb	Mar	Total Sales
1	East	Technical Support	\$ 800.00	\$ 650.00	\$ 700.00	\$ 2,150.00
2	East	Telephone	\$ 900.00	\$ 850.00	\$ 850.00	\$ 2,600.00
3	East	Copying	\$ 4,850.00	\$ 3,200.00	\$ 1,155.00	\$ 9,205.00
4	East	Overhead	\$ 1,250.00	\$ 1,250.00	\$ 1,250.00	\$ 3,750.00
5	East	Software	\$ 2,025.00	\$ 2,200.00	\$ 1,650.00	\$ 5,875.00

Highlighting and Deleting Duplicates Rows

The screenshot illustrates two methods for managing duplicate rows in Microsoft Excel:

Method 1: Conditional Formatting (Left Side)

In the top-left corner, a screenshot shows the Excel ribbon with the "Data" tab selected. A context menu is open over a range of data (A1:L10), specifically under the "Conditional Formatting" option. The menu path "Highlight Cells Rules" is highlighted. Sub-options include "Greater Than...", "Less Than...", "Between...", "Equal To...", "Text that Contains...", "A Date Occurring...", and "Duplicate Values...". The "Duplicate Values..." option is currently selected.

Method 2: Data Tools (Right Side)

In the top-right corner, another screenshot shows the Excel ribbon with the "Data" tab selected. A context menu is open over a range of data (A1:L10), specifically under the "Data Tools" option. The "Remove Duplicates" option is highlighted. A tooltip provides the following information: "Delete duplicate rows from a sheet. You can pick which columns should be checked for duplicate information."

Data Tables

Below the ribbons, two tables are shown:

- Employee Records:** A table with columns: Emp ID, Last Name, First Name, Dept, E-mail, Phone Ext, Location, and Hire Date. It contains 51 rows of employee data.
- Customer Info:** A table with columns: ID, Name, Address, City, State, Zip, and Phone. It contains 24 rows of customer data.

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

Data Validation

Validation criteria: Allow: Decimal, Minimum: 10.00, Maximum: 45.00. Apply these changes to all other cells with the same settings.

ID	MAKE	MODEL	DOORS	AUTO	SMOKE	PRICE	CNVRT	IN	RATE
7	33	Ford	Festiva	2	n	n	n	n	\$19.95
8	34	Chrysler	LeBaron	2	n	n	y	y	\$24.95
9	14	Pontiac	Sunbird	4	n	n	y	y	\$24.95
10	16	Pontiac	Sunbird	2	n	n	y	y	\$19.95
11	26	Pontiac	Sunbird	4	n	n	y	y	\$19.95
12	3	Ford	Tempo	4	n	n	n	n	\$19.95
13	32	Ford	Tempo	4	n	y	n	y	\$19.95
14	4	Chevy	Astrovan	5	y	n	n	y	\$34.95
15	11	Dodge	Caravan	5	y	n	n	y	\$34.95
16	22	Dodge	Caravan	5	y	n	n	y	\$34.95
17	29	Dodge	Caravan	5	y	n	n	y	\$34.95
18	5	Chevy	Lumina	4	y	y	n	n	\$22.95
19	18	Chevy	Lumina	4	y	n	n	y	\$24.95

Order Info Sort & Filter Subtotals Charting Buyers 2015 New Hires List + Average: \$25.45 Count: 16 Sum: \$407

Accessibility: Investigate

Sort & Filter

B2: Sort A to Z, Z↓ Sort Z to A, Sort by Colour, Sheet View, Clear Filter From "Product", Filter by Colour, Text Filters, Search.

	C	D	E
1	Units	Price/Unit	Sales
2	99	\$10.00	\$990.00
3	61	\$13.00	\$793.00
4	28	\$13.50	\$378.00
5	75	\$11.20	\$840.00
6	80	\$11.20	\$896.00
7	80	\$11.20	\$896.00
8	75	\$11.00	\$825.00
9	75	\$12.65	\$948.75
10	68	\$12.65	\$860.20
11	86	\$10.00	\$860.00
12	55	\$12.55	\$690.25
13	65	\$12.55	\$815.75

Chocolate Chocolate Chip

Sort & Filter

B2: Sort A to Z, Product, Units, Price/Unit, Sales.

	A	B	C	D	E
1	Salesperson	Product	Units	Price/Unit	Sales
2	Cattapan	Chocolate Chocolate Chip	99	\$10.00	\$990.00
3	DeMarcos	Chocolate Chocolate Chip	75	\$11.00	\$825.00
4	Packet	Chocolate Chocolate Chip	95	\$10.55	\$1,002.25
5	Patterson	Chocolate Chocolate Chip	52	\$12.00	\$624.00
6	Sergelo	Chocolate Chocolate Chip	57	\$12.55	\$715.35
7	Smith	Chocolate Chocolate Chip	70	\$11.00	\$770.00
8	Wilson	Chocolate Chocolate Chip	73	\$11.60	\$815.75
9	Cattapan	Fudge Brownie	61	\$13.00	\$783.00
10	DeMarcos	Fudge Brownie	75	\$11.00	\$825.00
11	Packet	Fudge Brownie	95	\$10.55	\$1,002.25
12	Patterson	Fudge Brownie	85	\$11.00	\$935.00
13	Sergelo	Fudge Brownie	80	\$11.00	\$880.00
14	Smith	Fudge Brownie	23	\$10.90	\$239.70
15	Wilson	Fudge Brownie	100	\$9.95	\$995.00
16	Cattapan	Strawberry	28	\$13.50	\$378.00
17	DeMarcos	Strawberry	86	\$10.00	\$860.00
18	Packet	Strawberry	90	\$10.90	\$981.00
19	Patterson	Strawberry	110	\$10.90	\$1,199.00
20	Sergelo	Strawberry	82	\$13.60	\$707.20
21	Smith	Strawberry	81	\$10.00	\$810.00
22	Wilson	Strawberry	75	\$11.20	\$840.00
23	Cattapan	Vanilla	an	\$11.20	\$840.00

Chocolate Chocolate Chip

Subtotal

A1: Subtotal, Add each item: Product, Use function: Sum, Add subtotal to: Salesperson, Product, Units, Price/Unit, Sales.

	A	B	C	D	E
1	Salesperson	Product	Units	Price/Unit	Sales
2	Cattapan	Chocolate Chocolate Chip	99	\$10.00	\$990.00
3	DeMarcos	Chocolate Chocolate Chip	75	\$11.00	\$825.00
4	Packet	Chocolate Chocolate Chip	95	\$10.55	\$1,002.25
5	Patterson	Chocolate Chocolate Chip	52	\$12.00	\$624.00
6	Sergelo	Chocolate Chocolate Chip	57	\$12.55	\$715.35
7	Smith	Chocolate Chocolate Chip	70	\$11.00	\$770.00
8	Wilson	Chocolate Chocolate Chip	73	\$11.60	\$815.75
9	Cattapan	Fudge Brownie	61	\$13.00	\$783.00
10	DeMarcos	Fudge Brownie	75	\$11.00	\$825.00
11	Packet	Fudge Brownie	95	\$10.55	\$1,002.25
12	Patterson	Fudge Brownie	85	\$11.00	\$935.00
13	Sergelo	Fudge Brownie	80	\$11.00	\$880.00
14	Smith	Fudge Brownie	23	\$10.90	\$239.70
15	Wilson	Fudge Brownie	100	\$9.95	\$995.00
16	Cattapan	Strawberry	28	\$13.50	\$378.00
17	DeMarcos	Strawberry	86	\$10.00	\$860.00
18	Packet	Strawberry	90	\$10.90	\$981.00
19	Patterson	Strawberry	110	\$10.90	\$1,199.00
20	Sergelo	Strawberry	82	\$13.60	\$707.20
21	Smith	Strawberry	81	\$10.00	\$810.00
22	Wilson	Strawberry	75	\$11.20	\$840.00
23	Cattapan	Vanilla	an	\$11.20	\$840.00

Subtotal, Charting, Buyers 2015, New Hires, List Functions, Sales Data.

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

Top Left: Power BI Data Explorer

The screenshot shows the Power BI Data Explorer interface. It displays a navigation pane on the left with 'Transactions' selected under 'device dataset.xlsx'. The main area shows a table titled 'Transactions' with columns: ProductName, PaymentMethod, Quantity, UnitPrice, and Sales. The table lists various products like Smartphones, Laptops, Tablets, and Wireless Earbuds, along with their respective payment methods, quantities, unit prices, and total sales.

Top Right: Power Query Editor

This screenshot shows the Power Query Editor ribbon at the top. The 'Get & Transform Data' tab is selected. A dropdown menu on the left shows 'From Excel Workbook' is currently chosen. The main pane displays a hierarchical tree structure for connecting to data sources, with 'From Excel Workbook' expanded to show options like 'From File', 'From Database', 'From Azure', etc.

Bottom Left: Excel Worksheet

An Excel worksheet titled 'FEBRUARY' is shown. It contains two charts: a bar chart on the left showing transaction amounts by payment method, and a pie chart on the right showing the distribution of payment categories. The data for the charts is derived from the 'Transactions' table in the Power BI Data Explorer.

Bottom Right: Excel PivotTable

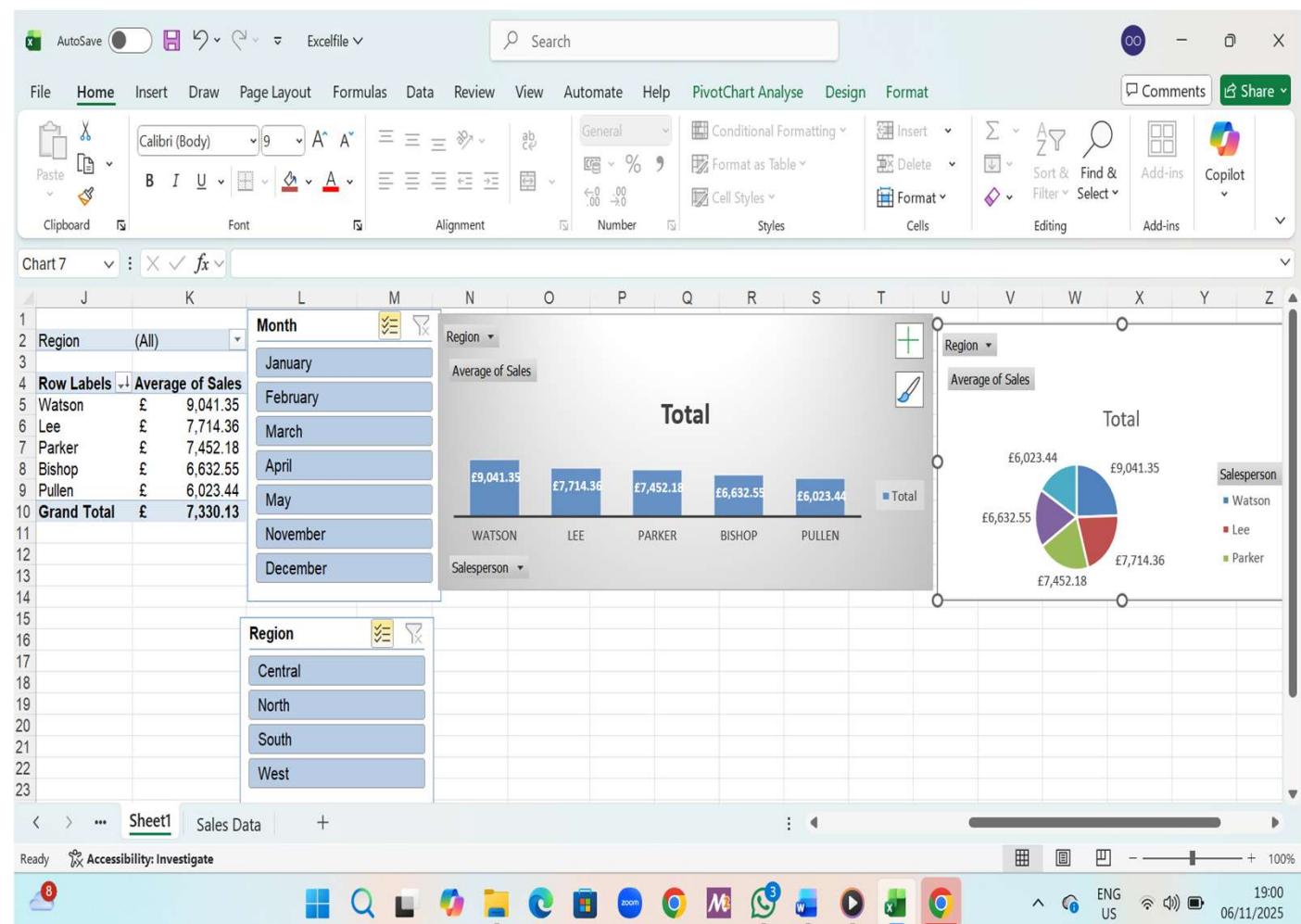
An Excel pivot table is displayed across multiple sheets. The data is summarized by product name and category (Cartegory) for three months: January, February, and March. The pivot table shows the total amount for each combination of product and category. The 'Transactions' sheet is active, while other sheets like 'Sheet1', 'Devices', 'Sheet2', and 'Sheet3' are visible in the bottom right corner.

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

PivotTable from table or range.
Create a PivotTable using data in a table or range.

		Sales	Units	Order #
5	2013 Jan	£ 2,395.50	1597 001	
6		£ 11,761.50	7841 002	
7		£ 8,943.00	5962 003	
8	2013 January	£ 2,385.50	1597 004	
9	Ice Cream	Bishop	West	
10	Frozen Yogurt	Bishop	West	
11	Frozen Yogurt	Lee	Central	
12	Tasty Treats	Lee	Central	
13	Frozen Yogurt	Lee	Central	
14	Tasty Treats	Lee	Central	
15	Ice Cream	Parker	North	
16	Ice Cream	Parker	North	
17	Ice Cream	Parker	North	
18	Ice Cream	Parker	North	
19	Popsicles	Pullen	South	
20	Popsicles	Pullen	South	
21	Frozen Yogurt	Watson	Central	
22	Tasty Treats	Watson	Central	
23	Frozen Yogurt	Watson	Central	
24	Tasty Treats	Watson	Central	
25	Ice Cream	Bishop	West	
26	Ice Cream	Bishop	West	
27	Tasty Treats	Lee	Central	
28	Ice Cream	Lee	Central	
29	Tasty Treats	Lee	Central	
30	Ice Cream	Lee	Central	
31	Frozen Yogurt	Parker	North	
32	Frozen Yogurt	Parker	North	
33	Frozen Yogurt	Parker	North	
34	Frozen Yogurt	Parker	North	
35	Tasty Treats	Pullen	South	
36	Frozen Yogurt	Pullen	South	
37	Tasty Treats	Pullen	South	
38	Frozen Yogurt	Pullen	South	
39	Ice Cream	Watson	Central	
40	Popsicles	Watson	Central	
41	Ice Cream	Watson	Central	

PivotTable Name:

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

PivotTable Fields

Choose fields to add to report:

Search Filters

Rows

Columns

Values

Defer Layo... Update

Ready Accessibility: Investigate

15:13 06/11/2025

Screenshots of Pivot Table Analysis

This screenshot shows the Microsoft Excel ribbon with the 'Pivot' tab selected. The main area displays a PivotTable with data for Salespeople and their total sales. A 'PivotTable Fields' dialog box is open, allowing users to choose fields to add to the report. The 'Salesperson' field is currently selected under the 'Rows' category.

	A	B	C
1	A	B	C
2			
3	Row Labels	Total Sales	
4	Bishop	£ 596,929.90	
5	Lee	£ 740,578.40	
6	Parker	£ 760,122.80	
7	Pullen	£ 505,968.95	
8	Watson	£ 650,976.90	
9	Grand Total	£ 3,254,576.95	
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

PivotTable Fields

Choose fields to add to report:

- Year
- Month
- Type
- Salesperson** (Selected)

Drag fields between areas below:

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

Defer Layo... Update

This screenshot shows a Microsoft Excel spreadsheet with a PivotTable and a PivotChart. The PivotTable displays sales data by Region and Salesperson. A 'Slicer' dialog box is open, showing the 'Region' field selected. The PivotChart visualizes the same data, with bars representing sales for each region. The 'PivotTable Analyse' tab is active in the ribbon.

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3	Row Labels	Total Sales										
4	Parker	£ 760,122.80										
5	Lee	£ 740,578.40										
6	Watson	£ 650,976.90										
7	Bishop	£ 596,929.90										
8	Pullen	£ 505,968.95										
9	Grand Total	£ 3,254,576.95										
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												

Insert Slicers

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

Selection: Insert Slicer Insert Timeline Refresh Filter Connections Actions Fields, Items, & Sets Data PivotTables Calculations Tools Recommended PivotTables Field List +/- Buttons Field Headers Show

PivotTable Fields

Choose fields to add to report:

- Year
- Month
- Type
- Salesperson**
- Region
- Sales
- Units
- Order #

Rows: Salesperson

Columns:

Values: Average of Sales

Defer Layo... Update

PivotTable Fields

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Rows: Salesperson

Columns:

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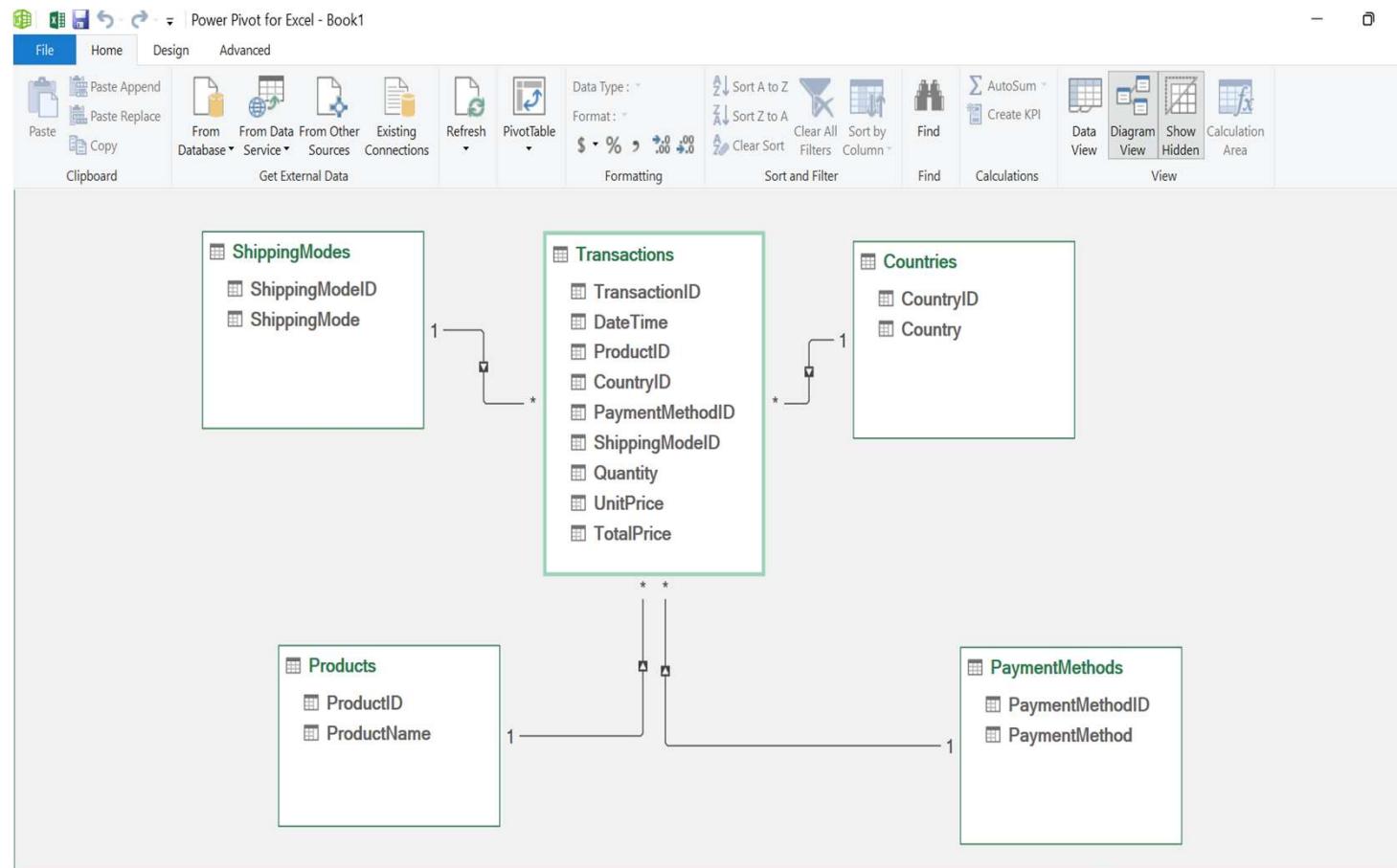
Defer Layo... Update

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

Power Pivot for Excel - Book1

Table Import Wizard

Connect to a Data Source

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

Power Pivot for Excel - Book1

Relationships

```

graph LR
    SM[ShippingModes] --- T[Transactions]
    T --- C[Countries]
    P[Products] --- T
    PM[PaymentMethods] --- T
  
```

Display: ENG 19:54

Power Pivot for Excel - Book1

Data View

TransactionID	DateTime	ProductID	CountryID	PaymentMethodID	ShippingModeID	Quantity	UnitPrice	TotalPrice
1	28/01/2024...	4	2	4	3	40	1529.67	88737.66
2	26/06/2022...	4	2	3	2	14	23471.1	32728.66
3	15/04/2020...	4	2	2	4	45	29030.4	19733.42
4	27/10/2023...	4	2	1	3	66	1344.51	31421.7
5	05/01/2021...	4	2	1	3	49	688.34	17500.99
6	21/10/2022...	4	2	1	2	14	1409.53	109.12
7	07/12/2024...	4	2	4	4	45	698.26	17182.26
8	07/11/2022...	4	2	4	1	17	1029.47	13827.96
9	01/10/2020...	4	2	3	1	6	682.53	4095.18
10	25/04/2023...	4	2	3	1	88	766.3	170433.12
11	18/06/2024...	4	2	2	2	89	1553.64	70925.9
12	07/04/2024...	4	2	1	3	9	1909.14	33275.6
13	21/07/2020...	4	2	4	1	88	1936.74	81962.3
14	15/08/2023...	4	2	3	2	41	1729.9	22544.5
15	20/10/2020...	4	2	3	3	98	836.35	1000.5

Transactions ShippingModes Products PaymentMethods Countries

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