1. What is the difference between "Merge" and "Append" in Power Query?

- Merge joins columns from two tables based on a common key (like SQL JOIN).
- **Append** stacks tables **vertically** (adds rows), useful for combining datasets with the same structure.

2. How do you split a "Full Name" column into "First Name" and "Last Name"?

Use **Transform > Split Column > By Delimiter > Space**, then rename the new columns.

3. What is "Pivot Columns" used for?

It **transforms row values into column headers**, summarizing data into a new table layout (e.g., Product names as columns).

4. How do you undo a step in Power Query?

In the **Applied Steps** pane, click the **X** next to the step you want to remove.

5. What is the purpose of "Reference" vs. "Duplicate" in queries?

- Duplicate creates a copy of the query and its data.
- **Reference** creates a **linked query** that reuses the original's output without duplicating the data.

6. Merge Orders.csv and Customers.xlsx on CustID (inner join).

- 1. Load both datasets
- 2. Select **Orders** > Home > Merge Queries
- 3. Choose **Customers** as the second table
- 4. Select **CustID** in both \rightarrow Join type: **Inner** \rightarrow OK
- 5. Expand the Customer fields you need (Name, Email)

7. Pivot the Product column to show total Quantity per product.	
1.	Select Product column
2.	Click Transform > Pivot Column
3.	For values: choose Quantity , and aggregation: Sum
8. App	pend two tables with identical columns (e.g., Orders_Jan.csv + Orders_Feb.csv).
1.	Load both tables
2.	Go to Home > Append Queries > Append as New
3.	Choose both tables to combine their rows
9. Use	"Fill Down" to replace nulls in the Email column with the previous value.
1.	Select the Email column
2.	Go to Transform > Fill > Down
10. Ex	tract the domain (e.g., "example.com") from the Email column.
Use Transform > Extract Text After Delimiter > "@" , or use M-code:	
m	
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= Table.AddColumn(Source, "Domain", each Text.AfterDelimiter([Email], "@"))	
11. W	rite M-code to merge queries dynamically based on a parameter (e.g., JoinType = "").
Assuming JoinTypeParam is a text parameter ("Inner", "LeftOuter", etc.):	
m	
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= Table.NestedJoin(Orders, {"CustID"}, Customers, {"CustID"}, "CustomerData", JoinTypeParam)

12. Unpivot a table with columns like "Jan_Sales," "Feb_Sales" into a "Month" and "Sales" format.

- 1. Select all month columns
- 2. Click Transform > Unpivot Columns
- 3. Rename the resulting columns to "Month" and "Sales"
- 13. Handle errors in a custom column (e.g., division by zero) using try...otherwise.

m

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= Table.AddColumn(Source, "SafeDivide", each try [Sales] / [Quantity] otherwise 0)

14. Create a function in Power Query to clean phone numbers (e.g., remove dashes).

1. Home > Advanced Editor, paste:

m

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let CleanPhone = (phone as text) as text =>

Text.Select(phone, {"0".."9"})

in CleanPhone

2. Use **Invoke Custom Function** to apply it to your column.

15. Optimize a query with 10+ steps—identify bottlenecks and simplify.

- Remove unnecessary columns early
- Combine multiple filtering steps into one
- Avoid changing data types repeatedly

- Use **Reference** instead of Duplicate where possible
- Disable **auto load** for intermediate queries