

## Python Test

1. Remove Null Rows.
2. Split Product column into Car Make & Car Model.
3. Fix Date column - Convert DD/MM/YYYY to be read as date instead of text.
4. Create a flag column to indicate rows with missing or inconsistent data. And Remove rows with amount zero & no values in other columns.
5. Clean the text in the City column.
6. Bring Region Name and country from Region Master to sales data.
7. Bring category from product Master to sales data.
8. Calculate Country-wise Sales amount.
9. Group by Product - Car Make.
10. Validate the Date column for invalid dates and log them in a separate DataFrame.
11. Handle duplicates by keeping the latest entry based on the Date column.
12. Use fuzzy matching for integrating Region Name if there are slight mismatches in keys.
13. Calculate the percentage contribution of each product to the total sales.
14. Identify the top-performing product (Car Make) in each region.
15. Calculate quarterly sales trends for each Car Make.
16. Write reusable functions for each cleaning task with appropriate exception handling and logging.