

Part - 8

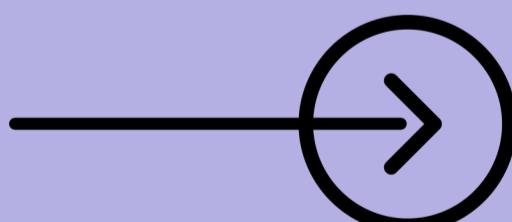
# Power Query

## Interview

### Questions and Answers...!



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# **What techniques do you use to handle data quality checks in power query?**

**For data quality checks, I remove duplicates, handle missing values, use data profiling tools, and create conditional columns to flag issues.**

**These steps ensure data accuracy and reliability for analysis in Power BI**

**Can you explain it**

**in detailed way**



# 1. Removing Duplicates

- **Method:** Identify and handle null or missing values using the 'Remove Rows' or 'Replace Values' options.
- **Example:**  
Replacing null values in **SalesAmount** with 0.

- Select the 'SalesID' column.
- Go to the 'Home' tab.
- Click on 'Remove Duplicates'

What about Handling Missing  
Values?



## 2. Handling Missing Values:

- **Method: Identify and handle null or missing values using the 'Remove Rows' or 'Replace Values' options.**
- **Example:**  
**Replacing null values in SalesAmount with 0.**

- Select the 'SalesAmount' column.
- Go to the 'Transform' tab.
- Click on 'Replace Values'
- Enter 'null' as the value to find and '0' as the value to replace.

What about Data Profiling ?



### **3. Using M Language:**

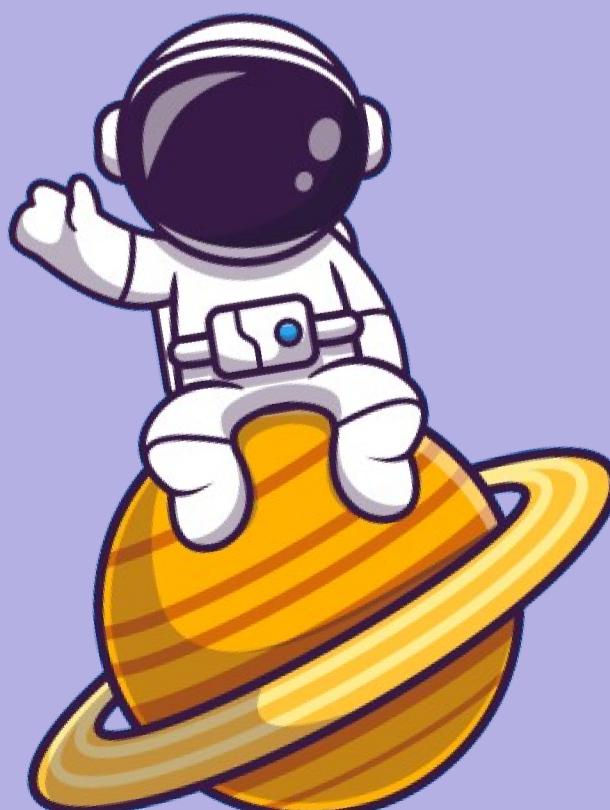
→ **Method: Use the data profiling tools in Power Query,**

**(e.g., Column Quality, Column Distribution, and Column Profile) to assess data quality.**

→ **Example: Checking for errors, empty values, and value distribution.**

- Go to the 'View' tab.
- Enable 'Column Quality', 'Column Distribution', and 'Column Profile'.

**What about Conditional  
Columns for QC ?**



## 4. Conditional Columns for Quality Checks

→ **Method: Create conditional columns to flag data quality issues.**

**Example:**

→ **Flagging rows where **Quantity** is less than 0.**

- Go to 'Add Column' > 'Conditional Column'.
- Define the condition: if [Quantity] < 0 then "Error" else "OK".
- Name the new column 'QualityCheck'.



wanna see some  
**Counter Questions**

# **1. How do you handle complex data validation rules in Power Query?**

→ **For complex data validation rules, I use custom M language scripts to define intricate conditions and transformations.**

**This allows for advanced data quality checks that go beyond simple conditional columns.**



**Next Question**

## **2. What steps do you take if you find significant data quality issues?**

→ If significant data quality issues are found, I document the issues, communicate them to stakeholders, and work on correcting the data at the source.

**Additionally, I implement preventive measures and continuous monitoring to avoid future issues.**



### **3. Can you automate data quality checks in Power Query?**

→ Yes, automation can be achieved by setting up the data quality checks using Power Query's built-in features and custom M language scripts.

**These checks will run automatically every time the data is refreshed, ensuring ongoing data quality without manual intervention.**

**Next**



## **4. How do you ensure data quality when combining multiple data sources?**

→ **When combining multiple data sources, I ensure data quality by standardizing data formats, reconciling discrepancies, and performing thorough data validation checks to align the data.**

**Using data profiling tools and conditional columns helps in maintaining consistency across sources.**



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