

✓ SECTION 1: Power Query (ETL) – Practical Tasks (10 Tasks)

TASK 1: Import an Excel file with multiple sheets. Combine all sheets into one table.

TASK 2: Create a Parameter for file path and make your query dynamic.

TASK 3: Remove duplicate rows using two specific columns.

TASK 4: Split a column that contains both “space” and “dash” (exact problem you faced).

TASK 5: Merge two tables using a left join to fetch Product Category.

TASK 6: Append two fact tables (e.g., Sales_2023 + Sales_2024).

TASK 7: Create a custom column to categorize orders into:

- High Value (> ₹10,000)
- Medium
- Low

TASK 8: Group data by Customer and calculate:

- Total Sales
- Count of Orders
- Average Order Value

TASK 9: Disable "Enable Load" for staging queries and confirm a performance boost.

TASK 10: Set up Incremental Refresh for a 3-year rolling window on a large dataset.

✓ SECTION 2: Data Modeling – Practical Tasks (6 Tasks)

TASK 11: Build a Star Schema using 1 fact table + 3 dimension tables.

TASK 12: Create a Date Table using DAX and mark it as a Date Table.

TASK 13: Fix an incorrect Many-to-Many relationship without using M:M directly.

TASK 14: Create a Snowflake dimension and then optimize it back to Star Schema.

TASK 15: Create a role for “India Region Manager” and restrict data to India only.

TASK 16: Break a large table into Fact + Dimensions using Power Query (normalization).

SECTION 3: DAX Mastery – Practical, Real Analyst Tasks (12 Tasks)

TASK 17: Create a measure to calculate:

Total Sales = SUM(Sales[Revenue])

TASK 18: Create a Running Total measure over Date.

TASK 19: Create YoY Growth % measure.

TASK 20: Create MoM Growth % measure.

TASK 21: Create a Top 5 Customers by Sales visual using a DAX measure.

TASK 22: Create a dynamic measure using Field Parameters (switch between Sales/Profit/Qty).

TASK 23: Use CALCULATE + FILTER to find:

Revenue for orders > ₹5,000

TASK 24: Create a measure to calculate Forecasted Sales using:

Forecast = Previous Month Sales * 1.08

TASK 25: Build a measure that shows Sales of LYTD (Last Year To Date).

TASK 26: Create a dynamic segment:

- Gold Customers: Sales > 2L

- Silver Customers: 1–2L
- Bronze: < 1L

TASK 27: Create a DAX measure that ignores all filters except Date filter.

TASK 28: Use CROSSFILTER to switch relationship direction for a special visual.

SECTION 4: Visuals & Dashboards – Practical Tasks (10 Tasks)

TASK 29: Create a Sales Overview Report using:

- Line Chart
- Bar Chart
- KPI
- Map
- Matrix

TASK 30: Add Bookmark navigation for:

- Overview
- Region View
- Category View

TASK 31: Create a drill-through page showing:

- Customer Details

TASK 32: Build a Tooltip Page showing Order Summary when hovering on charts.

TASK 33: Add conditional formatting in:

- Matrix (Profit Color Scale)
- Bar Chart (Highlight top 3 categories)

TASK 34: Use “Sync Slicers” across 3 report pages.

TASK 35: Build a “What If Parameter” to change discount % and see impact on profit.

TASK 36: Create a scatter plot showing correlation between Discount & Sales.

TASK 37: Create a custom theme JSON and apply it.

TASK 38: Build a Finance KPI card with:

- Trendline
 - Target vs Actual
 - Red/Green indicator
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SECTION 5: Power BI Service (Cloud) **– Practical Tasks (4 Tasks)**

TASK 39: Publish a report to Power BI Service and pin visuals to a Dashboard.

TASK 40: Schedule a refresh using a Gateway for a local Excel file.

TASK 41: Create an App Workspace and give Viewer/Member/Admin roles.

TASK 42: Create a Dataset + Report + Dashboard bundle inside an App.

SECTION 6: Security / Governance / **Deployment – Practical Tasks (3 Tasks)**

TASK 43: Implement Dynamic RLS for Region Managers using a mapping table.

TASK 44: Set Sensitivity Label (Confidential) on a dataset.

TASK 45: Create and use a Deployment Pipeline (Dev → Test → Prod).