

## 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.

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## 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).

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## ✓ 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.

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## ✓ 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.**

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## **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).**