

## Lesson 19: Publishing and Sharing in Power BI

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1. What is the difference between Power BI Desktop and Power BI Online Service?

- Power BI Desktop:
    - A free Windows application for creating and designing reports.
    - Used for data modeling, transformations (Power Query), DAX measures, and building visuals.
    - Works offline; must publish to share reports.
  - Power BI Online (Service):
    - A cloud-based platform for publishing, sharing, and collaborating.
    - Enables dashboards, scheduled refreshes, apps, and sharing with others.
    - Requires a Power BI account (Free/Pro/Premium).
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2. How do you publish a Power BI report from Desktop to the Online Service?

1. Open the report in Power BI Desktop.
  2. Click Publish (in the Home tab).
  3. Sign in to your Power BI account if prompted.
  4. Select a workspace (e.g., "My Workspace" or a shared workspace).
  5. Once published, the report appears in Power BI Service under the selected workspace.
  6. You can then share, schedule refreshes, or create dashboards from it.
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3. What is a workspace in Power BI? What are the types of workspaces available?

- Workspace: A collaboration space where teams create, edit, and manage Power BI content (reports, dashboards, datasets).

- Types:
  1. My Workspace (Personal) – Only you can access it.
  2. Shared Workspace – For team collaboration (requires Pro or Premium licenses).
  3. Premium Workspace – Uses dedicated cloud capacity (for large enterprises).

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4. What is the difference between a workspace and an app in Power BI?

Workspace	App
Where reports are created and edited.	A published, read-only collection of dashboards/reports.
Used by developers/data analysts.	Designed for end-users (business teams).
Requires edit permissions.	Users only need view access.
Can contain multiple drafts.	Provides a polished, finalized version.

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5. Explain the different Power BI license types and their limitations.

License	Cost	Key Features	Limitations
Free	\$0	View reports shared with you.	Cannot share reports or use shared workspaces.

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Pro	\$10/user/ month	Publish, share, collaborate in workspaces.	Cannot share with Free users unless in Premium.
Premium (Per User - PPU)	\$20/user/ month	Advanced AI, paginated reports.	More expensive than Pro.
Premium (Capacity - SKU)	Starts at ~\$5K/mont h	No per-user limits, enterprise scaling.	High cost, best for large orgs.

6. How can you share a report with someone who doesn't have a Pro license?

- Option 1: Publish to Premium capacity (Free users can view if workspace is Premium).
- Option 2: Publish to Web (publicly accessible, less secure).
- Option 3: Export to PDF/PPT and email (static, no interactivity).

7. What is a semantic model (dataset) in Power BI, and where is it stored in the service?

- Semantic Model (Dataset):
  - A structured data model (tables, relationships, measures) used in reports.
  - Created in Power BI Desktop and published to Power BI Service.
- Storage:
  - Stored in Power BI Service within a workspace.
  - Can be refreshed, shared, or used in multiple reports.

8. How does Scheduled Refresh work in Power BI Online Service?

1. Set up a data gateway (for on-premises data sources).
  2. In Power BI Service, go to dataset settings.
  3. Configure refresh schedule (daily, hourly, etc.).
  4. Power BI automatically updates the dataset at the scheduled time.
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9. What is the difference between a dataset and a dataflow in Power BI?

Dataset	Dataflow
Used for a single report.	Reusable data transformation logic.
Contains tables, relationships, measures.	Contains cleaned, transformed data (like a shared ETL layer).
Stored in one report.	Can be used by multiple reports.

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10. When and why would you use a dataflow instead of a dataset?

- Use Dataflows when:
    - Multiple reports need the same cleaned data.
    - You want to avoid repeating transformations.
    - Teams need centralized, standardized data.
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11. What are dashboards in Power BI Online? How are they different from reports?

## Dashboard

## Report

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Single-page collection of visuals.

Multi-page, interactive analysis.

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Can combine visuals from multiple reports.

Tied to one dataset.

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Static (no drill-through/filters).

Dynamic (slicers, cross-filtering).

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12. How do you pin a visual to a dashboard from a report?

1. Open the report in Power BI Service.
  2. Hover over a visual → Click the Pin icon.
  3. Choose an existing dashboard or create a new one.
  4. The visual now appears on the dashboard.
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13. What is the mobile view in Power BI and why is it useful?

- Mobile View: Optimized layout for phones/tablets.
  - Useful for:
    - On-the-go access to dashboards/reports.
    - Touch-friendly navigation.
    - Offline viewing (if enabled).
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14. What is a paginated report in Power BI and when would you use it?

- Paginated Report:

- Pixel-perfect, printable reports (like SQL Server Reporting Services - SSRS).
    - Designed for operational reports, invoices, PDF exports.
  - Use cases:
    - Financial statements.
    - Legal/compliance documents.
    - High-precision printing.
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15. Can you export reports from Power BI Service to PDF or PowerPoint? How?

- Yes:
    1. Open the report in Power BI Service.
    2. Click File → Export → PDF or PowerPoint.
    3. Pro/Premium license required for full exports.
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16. What does “Live Connection” mean in Power BI Service, and how does it work?

- Live Connection:
    - Direct link to Power BI dataset or SQL Server Analysis Services (SSAS).
    - No data stored in the report → queries live data.
    - Changes in the dataset automatically reflect in reports.
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17. Explain Row-Level Security (RLS) and how it's applied in Power BI Online.

- RLS: Restricts data access based on user roles.
- Steps to apply:
  1. Define roles in Power BI Desktop (e.g., "Sales Manager" sees only their region).
  2. Publish to Power BI Service.
  3. Assign users to roles in dataset settings.

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18. How can you test RLS roles in Power BI Service?

1. Go to dataset settings.
2. Click Security → Test as Role.
3. Select a role to simulate user access.
4. Verify data is filtered correctly.

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19. What are Apps in Power BI and how do you publish one?

- Apps: Curated collections of dashboards/reports for end-users.
- Publish steps:
  1. Create content in a workspace.
  2. Click Publish App.
  3. Configure access permissions.
  4. Users install the app from AppSource.

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20. What are some key benefits of using the Power BI Online Service in enterprise environments?

- ✓ Centralized collaboration (workspaces, apps).
- ✓ Automated data refreshes (scheduled, incremental).
- ✓ Scalability (Premium capacity for large datasets).
- ✓ Security (RLS, encryption, Azure AD integration).
- ✓ Mobile & embedded analytics.