

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

The difference between Power BI Desktop and Power BI Online Service is that in the former, users can create reports, write DAX calculation using data from various sources, while in the latter users and collaborate on those reports made in power bi desktop.

### **2. How do you publish a Power BI report from Desktop to the Online Service?**

To publish a Power BI report from Desktop to the Online Service users need to open the report that is to be published in Power BI Desktop(Tho first of all, one needs an account to publish those reports to), in "Home" tab of the ribbon, click on "Publish", log into the account, if it's the first time publishing, and choose a workspace to publish the report.

### **3. What is a workspace in Power BI? What are the types of workspaces available?**

Workspace, as the name suggests, is a kind of an environment isolated from other environments that is created for a specific purpose or a project for teams to collaborate on.

There are two types of workspaces: "My Workspace" and "Shared Workspace". The first is a personal workspace designed for personal reports, dashboards etc., but not for collaboration. The second is the same as the first, but used for team projects to work on the same report.

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

A Power BI workspace is a collaborative environment for report developers and analysts to build and share content like reports, dashboards, and datasets. An app is a bundle of reports and/or dashboards taken from an environment and grouped into one app.

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

There are four types of Power BI licenses available: Free, Pro, Premium Per User, Power BI Premium Capacity and Report Server

Free: Lets users create and publish reports only to their own workspace. For personal use only. No collaboration or team work or share with others. No Scheduled refresh. Data capacity: 1gb per dashboard, 10 gb per user.

Pro: Lets do everything in free, plus sharing and collaborating with other pro users is available. Scheduled refresh

- To share or view shared content, **both sender & receiver need Pro.**
- 1 GB per dataset, 10 GB per user (same as Free).
- Performance may not scale well for large enterprises.

-- Refresh: 8 per day.

-- Data capacity: same as free

## Premium per User:

- Everything in **Pro**, plus:
- Larger dataset size (up to 100 GB).
- More frequent refresh (48/day).
- Advanced AI (AutoML, Cognitive Services, text/image analytics).
- Paginated reports (like SSRS).
- Deployment pipelines.
- Dataflows with linked & computed entities.
- Enhanced performance.
- **Limitations:**
  - Recipients must also have **PPU** to view PPU reports.
  - Still **per-user pricing** (can get costly for large orgs).

## Premium:

- **Intended for:** Large organizations, enterprise-scale deployments.
- **Capabilities:**
  - Dedicated cloud compute & storage.
  - Unlimited content sharing (Free users can view content published in Premium capacity).
  - Very large datasets (up to 400 GB with XMLA endpoints, compressed up to 1 TB+).
  - More frequent refresh (48/day).
  - Advanced AI & paginated reports.
  - Multi-Geo support.
  - On-premises **Power BI Report Server** included.
- **Limitations:**
  - High cost (good only if you have many users).
  - Requires IT governance (managing capacity, performance tuning).

## Power BI Report Server

- **Cost:** Comes with **Premium** or **SQL Server Enterprise with Software Assurance**.
- **Intended for:** Organizations needing **on-premises reporting** (no cloud).
- **Capabilities:**
  - Host reports inside organization firewall.
  - Supports Power BI reports, paginated reports, Excel, and SSRS.
- **Limitations:**
  - No modern Power BI service features (AI, collaboration in cloud).
  - Less frequent updates (3 times a year vs monthly for cloud).

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

'Publish to web' enables unlimited distribution of your content without the need for consumers to have Pro licenses.

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

Semantic model is the data, tables, relationships, calculated columns and measures that a specific report uses. It is stored in a workspace where its report is.

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

Scheduled refresh in the Power BI online service automatically updates your imported datasets at defined intervals by connecting to the data sources, querying for new data, and loading it into the semantic model

## **9. What is the difference between a dataset and a dataflow in Power BI?**

Dataset is a collection of data, tables, relationship between those tables, Dax calculations that server as a storage of data for reports.

Dataflow, on the other hand, is an ETL process of Extraction data from a data source, Transforming data into clean, usable data and Loading into a Dataset.

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

I'd use dataflow instead of a dataset when I need to fetch raw data from a source clean it for further usage

## **11. What are dashboards in Power BI Online? How are they different from reports?**

A Power BI *dashboard* is a single page, often called a canvas, that tells a story through visualizations.

They are different from reports in that Dashboards show a only high-level, view of main KPIs, limited only to one page, and are constructed from visuals taken from different reports. Meanwhile, reports are more detailed with more pages and insights created to analyze a specific question in-depth.

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

To pin a visual to a dashboard from a report, go to the report, select "Pin" button on a visual you want to pin to a dashboard, select a dashboard you want to pin your visual to, create a new dashboard if you don't have one already, and confirm your choice.

## **13. What is the mobile view in Power BI and why is it useful?**

Mobile View feature in Power BI allows for making reports that are optimized for viewing on mobile devices. It is useful for making report that anyone can access with their phone anytime anywhere when they can't use their computer, say, during commute, when the power is off, or just when you don't have your laptop with you.

## **14. What is a paginated report in Power BI and when would you use it?**

Paginated reports are reports that span over multiple pages and are designed to be printed or shared. Thus, they fit well on a page even if a table spans multiple pages.

Picture this, you have a table in your report with many rows. In order to see all the rows, you need to scroll down. However, when you print or export as pdf the report, the only rows that will be seen are only you see on the page.

But with paginated reports, that same table will be printed or exported with as many pages as necessary to capture all the rows.

#### **15. Can you export reports from Power BI Service to PDF or PowerPoint? How?**

Yes, you can. Go to your report in power BI Service, click export and choose an option to export either to pdf, powerpoint or some other format.

#### **16. What does “Live Connection” mean in Power BI Service, and how does it work?**

Using Live Connection means that no data is stored in the Power BI model, so all interactions with a report will directly query the existing Analysis Services model

#### **17. Explain Row-Level Security (RLS) and how it’s applied in Power BI Online.**

RLS is a security method that allows or prohibits certain actions a user can do. There are Four levels of RLS:

Viewer – can only view reports and can’t make any changes into it. Very limited.

Contributor – everything a viewer can do but with more access to data, such as scheduling refresh.

Member- everything a contributor can do, but with wider access.

Admin – the highest level of security that can do almost everything into the report.

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

To test row-level security (RLS) in the Power BI Service, navigate to the dataset in your workspace, select "Security" from the options menu, click the ellipsis (...) next to a defined role, choose "Test as role"

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

Power BI Apps are curated collections of dashboards and reports, packaged for distribution and consumption by end-users within an organization. To publish an app, first create a workspace to collaborate on content, then publish the desired reports and dashboards to that workspace. From the workspace, select "Create app," then configure the app's name, description, and theme, add the content you want, and define specific audiences for access. Finally, publish the app, which provides a shareable link and a professional, read-only package of your content for users

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

Key benefits of Power BI Online Service for enterprises include enhanced data integration from diverse sources, powerful AI-driven insights with machine learning and natural language Q&A, advanced interactive data visualizations and personalized dashboards for accessible, actionable insights, robust collaboration tools for sharing reports and insights across teams, and scalable cloud-based infrastructure supporting large datasets and continuous updates.