

1. How does Power BI handle large datasets in the Online Service, and what is the role of Premium Capacity in this?
Power BI Premium provides dedicated resources (memory, CPU) for handling large datasets (up to 400GB per model). It allows higher refresh rates, larger model sizes, and AI capabilities that are not available with Pro licenses.

2. What are the differences between Import mode, DirectQuery, and Live Connection in Power BI Service?

- **Import Mode:** Data is loaded into Power BI's internal storage. Fastest performance but needs refresh.
- **DirectQuery:** Queries data source live, no data imported. Data always up-to-date but slower performance.
- **Live Connection:** Directly connects to Analysis Services or Power BI datasets; no data stored in PBIX.

3. Explain deployment pipelines in Power BI Online. What stages do they include?

Deployment pipelines support DevOps workflows:

- **Development (Dev)**
- **Test (UAT / Staging)**
- **Production**

They allow controlled promotion of reports, datasets, and dashboards through environments.

4. How can Power BI Service integrate with Microsoft Teams or SharePoint for collaboration?

Reports can be embedded into Teams channels via the Power BI tab. In SharePoint, reports can be embedded with the Power BI web part. Both allow easier sharing and collaboration within Microsoft 365.

5. What is the XMLA endpoint in Premium and how does it benefit developers or enterprise BI teams?

XMLA endpoints allow external tools (e.g., SQL Server Management Studio, Tabular Editor) to connect for advanced modeling, management, and automation of datasets stored in Premium Capacity.

6. Describe how usage metrics and audit logs work in Power BI Service.
Usage metrics track report views, active users, and interaction counts. Audit logs provide detailed activity records (views, downloads, shares) for compliance and monitoring.

7. How do you manage workspace access and permissions for different users?

You assign roles: Admin, Member, Contributor, or Viewer. Each role has specific permissions for editing, publishing, or viewing content.

8. How can data governance be enforced in Power BI Service?
Through data lineage, sensitivity labels, certified datasets, audit logs, and centralized IT-controlled workspaces. Governance policies can be applied via Microsoft Purview.

9. What are the limitations of Row-Level Security when using DirectQuery or Live Connection?

Performance may degrade due to frequent query rewriting. In Live Connection, RLS must be defined on the source model (e.g., Analysis Services) not Power BI.

10. Explain how you can refresh a dataset via Power Automate or REST API.

Power Automate offers a **"Refresh Dataset"** action for scheduled or triggered refreshes. The REST API provides programmatic access to trigger refreshes, monitor status, and manage datasets.