1. How Power BI Handles Large Datasets & Role of Premium Capacity

- Power BI Pro supports datasets up to 1 GB per model and limited refreshes.
- **Premium Capacity** increases limits:
 - o Dataset size up to 400 GB
 - o Up to 48 refreshes/day
 - o Enhanced performance with **dedicated compute**
- Premium also enables AI features, paginated reports, and large semantic models.

2. Differences: Import Mode, DirectQuery, Live Connection

Mode	Data Stored in PBIX?	Real-time Data?	Pros	Cons
Import	Yes	No	Fastest, best performance	Not real-time, needs refresh
DirectQuery	No (queries source)	Yes	Real-time, smaller file size	Slower, source limitations
Live Connection	No (for SSAS/PBI datasets)	Yes	Centralized models, real-time	No data modeling in PBI Desktop

3. Deployment Pipelines in Power BI

Used to promote reports and datasets across environments:

- Stages:
 - 1. **Development**
 - 2. Test
 - 3. **Production**
- Supports version control, workspace comparison, and data source rules for connection mapping.

4. Power BI & Microsoft Teams/SharePoint Integration

- Teams:
 - o Embed reports in Teams channels
 - o Chat about reports in real time
- SharePoint:
 - o Embed interactive reports via Power BI web part
- Enhances **collaboration** without switching platforms

5. XMLA Endpoint in Premium

- Allows read/write access to Power BI semantic models using SSMS, Tabular Editor, or Visual Studio
- Enables:
 - Advanced modeling
 - o CI/CD automation
 - Integration with DevOps pipelines
- Enterprise-grade modeling just like SSAS

6. Usage Metrics & Audit Logs

- Usage Metrics: In-built reports to see report views, active users, favorites, etc.
- Audit Logs (via Microsoft 365 Admin Center):
 - o Track who viewed, shared, or exported content
 - Useful for compliance and security

7. Workspace Access & Permissions

- Power BI workspaces support role-based access:
 - Admin: full controlMember: edit content
 - o Contributor: create and edit items
 - o **Viewer**: read-only
- Access is managed via **Azure AD groups** or manually by workspace admins.

8. Enforcing Data Governance in Power BI Service

- Sensitivity labels via Microsoft Purview
- Data Loss Prevention (DLP) policies
- **Endorsements** (certified or promoted datasets)
- Audit logs & activity monitoring
- Row-Level Security (RLS) & Object-Level Security (OLS)

9. Limitations of RLS with DirectQuery or Live Connection

- **DirectQuery**: RLS applies, but **performance may degrade** due to real-time filtering.
- **Live Connection** to SSAS:
 - o RLS must be handled in **SSAS**, not in Power BI.
 - o Power BI cannot override SSAS roles.

10. Refresh a Dataset via Power Automate or REST API

Power Automate:

- Use "Refresh a dataset" Power BI connector.
- Trigger refresh on schedule, after file updates, or events.

REST API:

• Use endpoint:

POST

https://api.powerbi.com/v1.0/myorg/groups/{groupId}/datasets/{datasetId}
}/refreshes

• Automate via scripts, DevOps tools, or Azure Functions.