

# Storage Modes In Power BI



**1. Import Mode**

**2. Direct Query Mode**

**3. Live Connection Mode**

**4. Dual Mode**

## **1. Import Mode**

- In Import mode, data from the data source is imported and stored in the Power BI file.
- Import mode is suitable for smaller datasets that can comfortably fit into the memory of the Power BI desktop or service.
- It is Fastest Data Storage Mode.
- This mode provides the best performance for data transformations, relationships, and the creation of calculated columns and measures and visualizations within Power BI.

## **2. DirectQuery Mode**

- When we require real-time access to the latest data in the source system without having to refresh the Power BI dataset manually, DirectQuery Mode is a good choice.
- Power BI sends queries directly to the data source instead of importing the data. The data stays in the source, and Power BI retrieves and displays the results in real-time.
- DirectQuery is suitable for large datasets that may not fit into the memory of the Power BI desktop or service.

### **3. Live Connection Mode**

- This is mainly for analysis services like SQL server analysis services (SSAS) or Azure analysis services.
- In this mode, the report retrieves data and calculations directly from the connected model.
- It's a suitable choice for scenarios where we want to analyze large datasets directly from the source and require real-time updates.

## **4. Dual Mode**

- This mode allows us to use a combination of Import and DirectQuery within the same report.
- This mode provides flexible approach in combining data from different sources and optimizing performance.

### **Suggestion:**

Use DirectQuery mode for facts tables & Import Mode for dimension tables.

**Thank You**

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