

Key Areas for Performance Testing:

1. **Data Loading and Query Performance:**
 - Measure time to load data and perform calculations.
 - Test query execution times using **Power BI Performance Analyzer** and **DAX Studio**.
2. **Report Rendering Time:**
 - Test how long it takes for reports to load and render visuals.
 - Measure with **Power BI Performance Analyzer** or browser tools.
3. **Data Refresh Time:**
 - Measure how long it takes for data to refresh in Power BI from external sources (e.g., sensors).
 - Use **Power BI Service** or **Data Gateway** to monitor refresh times.
4. **Scalability Testing:**
 - Test performance with increasing data volume (from weeks to months or years of data).
 - Monitor performance as data grows using **Power BI Performance Analyzer**.
5. **Concurrency Testing:**
 - Simulate multiple users interacting with the reports at the same time.
 - Use tools like **Azure Load Testing** to simulate users.
6. **User Interaction Performance:**
 - Measure response time for user interactions (filters, slicers, drilldowns).
 - Test how quickly interactions update the visuals.