**Power BI – Synapse Synergies Demo setup**

**Outline**

1. **Setup**
2. **Data/schema setup**
3. **Power BI setup**
   1. **For pbix: change connection and refresh**
   2. **Manual (in appendix)**
4. **Monitoring: Dax studio set up**
5. **Demo**
   1. **Show size of data and size of model**
   2. **Fast response of 1st level and 2nd level Agg**
      1. **Show in UI**
      2. **Show in Monitor**
      3. **Show how it is set up: with Agg table connected to**
   3. **Direct Query visual performance**
      1. **Show in UI**
      2. **Show in Monitor**
   4. **Accelerate: direct Query**
      1. **Capture SQL and then do Explain with\_recommendations**
      2. **Implement Materialized view**
      3. **Test direct query again**
      4. **Turn on resultset caching and try**
   5. **Preview Features**
      1. **Automated Aggregations**
      2. **Accelerator (automated materialized views).**

**Details**

1. **DataSet up NYC Taxi data set on Synapse Dedicated Pool**
2. **User/Login script**
3. **Create and populate tables script**

**Note: script and description are available here also, and in Synapse Knowledge under SQL scripts:**

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/load-data-from-azure-blob-storage-using-copy>

1. Scripts To Create Materialized Views to Populate Aggregation Tables
2. **Power BI**

The below steps demonstrate how to re-point an already made Power BI demo to your environment. There is a discussion of the design that powers the report.

There are detailed steps to create the aggregations separately, for demonstration purposes.

**Change data source settings of Power BI to your Synapse Server and DB** **Graphical user interface, application

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

**Change credential**

**Graphical user interface, application

Description automatically generated**