**DOE Data Insights Storyboard**

1. Open the Uranium Mines data
   1. Data has several columns – illustrate the LAT and LONG colums along with the LATITUDE and LONGITUDE columns :: Data is a mixture of string variables and numbers. We need to write a calculation that look at each row and has logic which says if LATITUDE is NULL then transform the LAT column by extracting the number portion and converting it to a decimal value.
2. Open the Data flows within the Develop tab in Synapse workspace
   1. Open the DOE-Data-Insights folder and it has two data flows :: One for loading data to Parquet and one for loading to a dedicated SQL Pool
      1. Both have the same calculation logic as required in item 1a.
3. Open the SQL Scripts within the Develop tab in Synapse workspace
   1. Open the DOE-Data-Insights folder and open the “Query data using both serverless and dedicated sql pools”
      1. First use the Built-in pool with database of master to run the serveless queries
      2. Then switch to the Dedicated SQL Pool : artdedicatedsqlpool01 and run the traditional SQL Queries
4. Open the PowerBI (Cloud ARTists COE) in Develop tab in Synapse workspace
   1. Navigate to the PowerBI Reports and open the “Mine Locations” report
   2. Click the Pie chart and make it a donut chart and click Save
   3. Navigate to PowerBI.com using your art credentials and show them the changes in real time

Data as a strategic asset

What is an asset - . . .

What is strategic – something that is unique and special and can be leveraged