Self study week 1 description

***Part 1:***

1. Introduction to Power BI Platform - Architecture, Service, Desktop, Sources, Gateway, Tools for report development, Power BI Mobile & Power BI Embedded
2. Power BI Service objects - Workspace, Content, Dataset & Dataflows, App
3. Data Extraction - Files, Databases + data storage options, Power BI Datasets, Web, Odata
4. Data Transformation - Cleaning data options, Transforming data + query joining options, Data enrichment options (custom columns, conditional columns, index column, filling up/down)
5. Module Data Transformation - Queries and Applied steps, Working with Advanced Editor, renaming, Duplicate columns, Working with data types; Date functions in Power BI; Split column; Create groups of queries; Add new columns: Conditional column; Column from Example; Custom column; Index column; Power query M; Append and merge queries; First row as header; Query dependences; Query parameters; Create function with parameter; Invoke custom function; Pivot/unpivot data; Filtering out values; Replacing data; Create new query by list of values;  Working with fact and dimensions;
6. Loading and refreshing data - Report, Data and Model tabs, Loading Data, Incremental refresh
7. Practice

***Part 2:***

1. Module Data modeling - Data relationships, Hide fields and measures, Calculated columns and calculated tables in Power BI, Hierarchies
2. DAX Calculations - What is DAX, DAX calculated columns vs DAX measures, DAX Functions overview
3. Module DAX -  Aggregation Functions; ‘X’ Aggregation Functions; VAR Function, Time Intelligence Functions; Text Functions; Table Functions (FILTER, ALL, RELATEDTABLE, etc); CALCULATE; DAX Formatter;
4. Practice