

# Outline for Power BI

*Rehman Sadaqat*

**Note: The content covered is dependent upon the learning rate of DS\_08**

**Learning Plan: TBD**

**Module 1:** Getting Data from different sources

**Module 2:** Optimizing performance

- import data from power view, pivot, etc + local vs OneDrive

**Module 3:** Cleaning and Transforming Data

- Merging info from one table to another
- Join types
- Data profiling

**Module 4:** Designing a Data Model

- Working with tables
- Dimensions & hierarchies
- Create model r/n
- Review model interface
- Enforce row-level security

**Module 5:** Model calculation using DAX

- Create calculated tables
- Create calculated columns
- Create quick measures (size constraint + pre-defined)
- Create measures (curated)
- Time intelligence fn
- Key perf indicators

**Module 6:** Optimize Model performance

- DirectQuery vs import
- Importance of Variable
- Other Optimization Techniques

**Module 7:** Reports and Accessibility

- Design & Create Report + Enhance Report + Configure visual fields and formats
- Sync slicers

- Drill - through page
- Conditional formatting
- Bookmarks
- Accessibility ~ alt text + data table + tab order + theme
- Histogram

#### **Module 8: Dashboards**

- Create Dashboard
- Real-Time Dashboard + Enhance Dashboard
- Configure Dashboard tile alert
- Use Q&A for analysis + Quick Insights
- featured dashboard, usage metrics report + Configure for mobile view

#### **Module 9: Paginated Reports**

- Power BI report builder + Design multi-page report layout + Export report to PDF)

#### **Module 10: [Power BI Master] Performing Advanced Analytics**

- Advanced analytics = grouping on data fields, binning on numerical fields, drill down/up, analyze
- Data insights through AI visuals ( key influencers)
- Animated scatter chart
- Use visual to forecast value
- Create custom advanced analytics visual

#### **Module 11: Power BI Professional**

[OPTIONAL]

- Managing Workspaces
- Sharing and managing assets
- Map security principles to Data-Set roles
- Publish app

#### **Module 12: Managing Datasets**

- Parameters using Power Query editor + Datasets + Configure dataset refresh