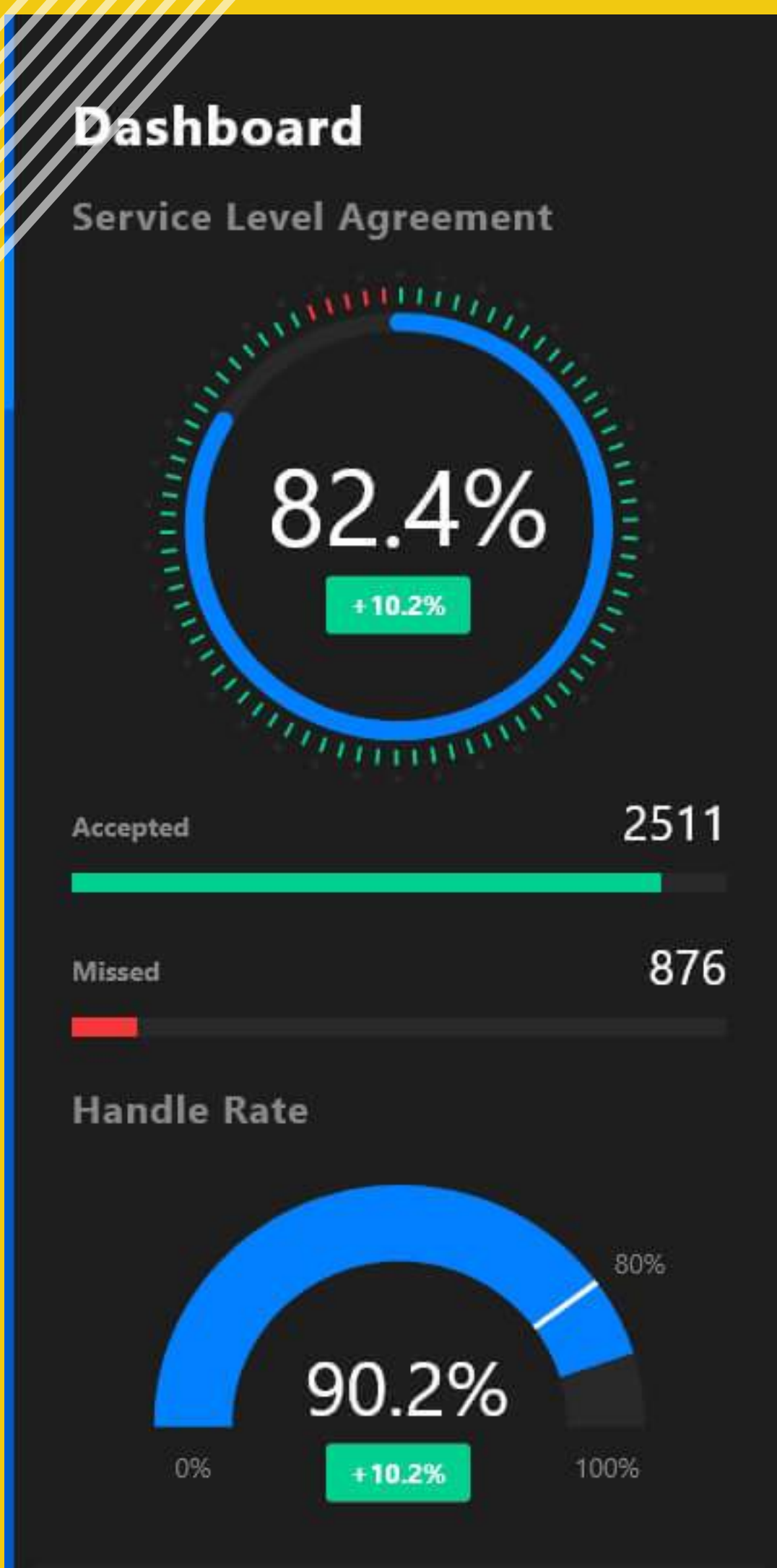




# Power Bi Training Curriculum





# Beginner

## **1. Getting started with Power BI**

1.1 Downloading the Power BI Desktop

1.2 A walk through of the Power BI user interface

1.3 Importing Data into Power BI

1.4 Power Query user interface walk-through

1.5 ETL on Power query - Data transformation.

## **2. Data Modelling Fundamentals**

2.1 Data Modeling and it's essence

2.2 Steps to building a Data Model

2.3 Data Models preparation in Power Query

2.4 Understanding Facts and Dimensions

2.5 Extracting the Fact and Dimension tables

2.6 Managing relationships in Power Bi

2.7 Testing the relationships in Report View

## **3. Data Modelling Fundamentals 2**

3.1 Data Tables

3.2 Calculated Tables

3.3 Data Columns and Calculated columns

3.4 Working with measures

3.5 Hierachies

3.6 Rows of Data

## **4. Visualizing Reports in Power BI**

4.1 Visualizing a timeline report with line chart

4.2 How to format charts in Power BI

4.3 Adding more than one chart to the report

4.4 Top N report using a Bar Chart

4.5 Use of filters pane and slicers

4.6 Controlling visual interactions on the Canvass

4.7 Optimising report for mobile view and publishing reports to the Power BI service

4.8 Right visuals selection - Best practices

4.9 Using a report page as template for future reports

## **5. Understanding Data Modeling in Power BI**

5.1 Data models and their importance

5.2 Steps to building a data model

5.3 Preparing models using Power Query

5.4 Getting the Fact and Dimension Tables

5.5 Resolving issues with relationships within the model

5.6 Testing the relationships in the Report view

## **6. Welcome to DAX**

6.1 Introduction to DAX

6.2 Generate a Calendar Table using CALENDARAUTO

6.3 Add Month, Year & Qtr columns to Calendar with FORMAT

6.4 Creating a custom sort column for the month column using MONTH

6.5 Connecting the Calendar table to the Fact table

6.6 Writing simple aggregation measures

6.7 Creating automatic measures with Quick measures

## **7. More on DAX**

7.1 Introduction to the CALCULATE function

7.2 Creating a shell table for measures.

7.3 Writing Time Intelligence formulas - PREVIOUSMONTH Function

7.4 Calculating Month on Month Variance

7.5 Using the REMOVEFILTERS function and Calculating percentage share

7.6 Calculating SPLY values using SAMEPERIODLASTYEAR

7.7 Calculating Year to Date Values

## **8. Visualizing Calculated Measures**

8.1 Creating automatic measures with Quick Measures

8.2 Customizing the report theme and creating a report page template

8.3 Visualisation using the line chart

8.4 Creating a forecast from a Line chart

8.5 Visualizing Monthly variance with a waterfall chart

8.6 Creating a Matrix Table report with Data Bars

8.7 Creating simple Donut charts

8.8 Visualizing current and previous period with clustered bar chart

8.9 Visualizing changes in ranking over time with Ribbon Chart.



# Intermediate

## **1. Power BI Overview**

- 1.1 Installing sample databases
- 1.2 Power BI Tenant/Licensing
- 1.3 Connecting to Delimited Text Files
- 1.4 Connecting to Excel data
- 1.5 Connecting to a folder of data

## **2. Transforming report data and combining tables**

- 2.1 Removing unwanted rows
- 2.2 Fill Down
- 2.3 Unpivot Columns
- 2.4 Append Queries
- 2.5 Merge Queries

## **3. Data Modelling Fundamentals**

- 3.1 Data Tables
- 3.2 Calculated Tables
- 3.3 Data Columns and Calculated columns
- 3.4 Working with measures
- 3.5 Hierarchies
- 3.6 Rows of Data

## **4. Creating Fact, Dim Tables, Date Tables**

- 4.1 Creating schemas and views for Power BI
- 4.2 Connecting views
- 4.3 Using Relationship columns
- 4.4 Disabling Auto Date/Time
- 4.5 Creating a Date Table/Using an External Date



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