Power BI Training - Level 2 - Curriculum

Session 1: Review of Power BI Basics (1 Hour)
- Quick refresher of Power BI fundamentals, including data modeling, creating visualizations, and sharing reports and dashboards.
- Review of key concepts such as data sources, data transformations, data modeling, and creating basic visualizations.
- Hands-on exercises to reinforce the basics and ensure a solid foundation for advanced topics.

Session 2: Advanced Data Modeling (1 Hour)
- Understanding relationships in Power BI, including creating and managing different types of relationships.
- Advanced Data Analysis Expressions (DAX) functions for more complex calculations and measures.
- Working with hierarchies, including handling date hierarchies and custom hierarchies.
- Hands-on exercises to practice advanced data modeling techniques.

Session 3: Advanced Visualizations (1 Hour)
- Exploring advanced visualizations, including custom visuals and how to create and use them.
- Creating drill-throughs and drill-downs to allow users to analyze data at different levels of detail.
- Using bookmarks, report page tooltips, and advanced interactions to create interactive visualizations.
- Hands-on exercises to create advanced visualizations and interactions.

Session 4: Data Transformation with Power Query (1 Hour)
- Deep dive into Power Query, including advanced data transformation techniques.
- Working with text data, including splitting, merging, and formatting text columns.
- Creating conditional columns based on data conditions.
- Managing data types and handling data quality issues.
- Hands-on exercises to practice advanced data transformation using Power Query.

Session 5: Using Parameters (1 Hour)

- Understanding parameters and their importance in creating dynamic and interactive reports and dashboards.
- Creating and using parameters for dynamic filtering, sorting, and calculations.
- Setting up date ranges using parameters for time-based analysis.
- Hands-on exercises to practice using parameters in Power BI.

Session 6: Power BI Administration (1 Hour)

- Managing Power BI workspaces, including creating, sharing, and securing workspaces.
- Managing users and permissions, including creating and managing security roles.
- Data refresh options and best practices for keeping data up-to-date.
- Monitoring and optimizing Power BI performance.
- Hands-on exercises to practice Power BI administration tasks.

Session 7: Best Practices for Power BI (1 Hour)

- Understanding best practices for creating effective and efficient Power BI reports and dashboards.
- Data visualization best practices, including choosing the right visualizations and formatting options.
- Report design best practices, including layout, navigation, and storytelling.
- Performance optimization techniques to ensure fast and responsive reports and dashboards.
- Hands-on exercises to apply best practices in Power BI report creation.

Session 8: Q&A and Wrap-up (1 Hour)

- Open Q&A session to address any remaining questions or concerns.
- Recap of key concepts covered in the curriculum.
- Final thoughts on advanced Power BI topics and best practices.
- Certificate of completion and next steps for further learning and certification.

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