

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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DAX (Data Analysis Expressions)

Introduction to DAX

- Overview of DAX and its role in data analysis
- Key features and benefits of using DAX
- Understanding DAX syntax and operators

DAX Basics

- Introducing DAX data types (numeric, text, Boolean, datetime)
- Creating basic calculated columns and measures
- Understanding evaluation context in DAX

DAX Functions - Basics

- Introduction to DAX functions (scalar vs. table functions)
- Commonly used scalar functions (e.g., SUM, COUNT, AVERAGE)
- Using basic table functions (e.g., FILTER, ALL, VALUES)

Advanced DAX Functions

- Statistical functions in DAX (e.g., MINX, MAXX, MEDIANX)
- Time intelligence functions (e.g., TOTALYTD, SAMEPERIODLASTYEAR)
- Advanced table functions (e.g., RELATEDTABLE, CROSSJOIN)

Calculated Columns vs. Measures

- Differences between calculated columns and measures

- Best practices for choosing between columns and measures
- Performance considerations in DAX calculations

DAX Patterns and Techniques

- Common DAX patterns for solving business problems
- Implementing hierarchical calculations (parent-child relationships)
- Implementing custom calculations using DAX

Handling Errors and Exceptions in DAX

- Managing errors in DAX formulas
- Using IFERROR and ISERROR functions
- Error handling best practices

DAX in Power BI

- Integrating DAX with Power BI Desktop
- Creating calculated columns and measures in Power BI
- Optimizing DAX performance in Power BI reports

DAX in Excel Power Pivot

- Introduction to Excel Power Pivot and DAX integration
- Building data models with DAX in Excel
- Leveraging DAX for advanced data analysis in Excel

Advanced Data Modeling with DAX

- Creating complex relationships in data models
- Implementing role-playing dimensions
- Best practices for optimizing data models with DAX

DAX and Data Visualization

- Using DAX to enhance data visualization in Power BI
- Integrating DAX calculations with visualizations
- Implementing dynamic reporting with DAX

DAX Best Practices and Performance Tuning

- Best practices for writing efficient DAX formulas
- Techniques for improving DAX query performance
- Monitoring and optimizing DAX calculations

Advanced DAX Scenarios

- Implementing advanced calculations (e.g., advanced aggregation)
- Solving complex business scenarios with DAX
- Real-world applications and case studies

Integrating DAX with SQL and M

- Combining DAX with SQL queries in Power Query Editor
- Using DAX and M (Power Query) for data transformation
- Advanced integration scenarios

DAX in Analysis Services (SSAS)

- Overview of DAX in SQL Server Analysis Services (SSAS)
- Building tabular models with DAX expressions
- Deploying and managing DAX models in SSAS

DAX Security and Role-Based Access

- Implementing row-level security with DAX
- Managing access control and permissions
- Best practices for securing DAX models

Ethical and Legal Considerations

- Ethical implications of data analysis with DAX
- Legal aspects and compliance (e.g., data privacy laws)
- Privacy and data protection considerations in DAX

Emerging Trends in DAX

- Advances in DAX technologies and methodologies
- Future directions and innovations in DAX

- Predictions for the evolution of DAX capabilities

Capstone Project (if applicable)

- Design and implementation of a DAX-driven analysis solution
- Project-based learning with mentorship and feedback