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Data Analysis Expressions (DAX)

Lab & Practice-based training

International certified trainer

Training program in accordance with international standards

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PROGRAM

1. Introduction to Data Analysis Expressions (DAX)

- DAX data types
- Understanding calculated columns and measures
- Understanding aggregators and iterators: SUM, COUNT, MIN, MAX, AVERAGE, COUNTROWS, DISTINCTCOUNT, SUMX, AVERAGEX
- Using logical functions: IF, AND, OR, SWITCH, FERROR
- Relational functions: RELATED and RELATEDTABLE

2. Basic table functions

- Understanding FILTER function
- Introducing ALL, ALLEXCEPT and ALLSELECTED functions
- Understanding VALUES, DISTINCT functions and their difference

3.. Evaluation Context

- Filter context
- Filter and relationships
- Row context, using RELATED in a row context
- Understanding nested row context, using EARLIER function

4. CALCULATE function

- Understanding difference between CALCULATE and other DAX functions
- CALCULATE for replacing, ignoring and intersecting with outer filters
- Understanding CONTEXT TRANSITION
- CALCULATE and advanced filters
- CALCULATE modifiers (KEEPFILTER, USERRELATIONSHIPS, CROSSFILTER, ALL family functions)
- CALCULATE rules

5. Variables

- Introducing VAR syntax
- The scope of variables
- Using table variables
- Common patterns using variables

6. Iterators

- Using iterators: MAXX, MINX, CONCATENATEX
- Understanding RANKX
- RANKX with ISINSCOPE function (explanation of HASONEVALUE and SELECTEDVALUE)

7. Date table and Time intelligence functions in DAX

- Functions to create data table
- Understanding “Marks as date table”
- DATESYTD (applying Fiscal Year to Date), DATESQTD, DATESMTD
- SAMEPERIODLASTYEAR, PARALLELPERIOD
- PREVIOUSYEAR, PREVIOUSQUARTER, PREVIOUSMONTH, PREVIOUSDAY
- DATEADD (Day-Month-Quarter-Year)
- DATESBETWEEN, FIRSTDAY, LASTDAY
- Other date functions: CLOSINGBALANCEMONTH, CLOSINGBALANCEQUARTER, CLOSINGBALANCEYEAR
- Writing Custom Time Intelligence Functions
- Working with custom calendars

8. Authoring queries

- Introducing DAX Studio
- EVALUATE syntax, measures in DEFINE, using VAR
- CALCULATETABLE function
- ADDCOLUMNS, SELECTCOLUMNS functions
- SUMMIRIZE, SUMMIRIZECOLUMNS, GROUPBY functions (Similarities and differences).
- CROSSJOIN function
- TOPN and GENERATE functions
- UNION, INTERSECT and EXCEPT functions

9. Advanced DAX concepts

- Introducing expanded tables
- Understanding the difference between table filters and column filters
- Understanding data lineage and TREATAS
- Understanding arbitrarily shaped filters

10. Advanced relationships

- Implementing relationships based on ranges (static segmentation)
- Understanding many to many relationships
- Computing multiple-column relationships (LOOKUPVALUE)
- Managing granularities

11. Additional Practical cases

- ABC Pareto analysis
- New and Returning Customers
- Parent-child hierarchies