It looks like you're referring to **SQL for DAX (Data Analysis Expressions)**, which is commonly used in **Power BI, Excel Power Pivot, and Analysis Services**.

DAX itself is not a direct extension of SQL but is designed for creating measures, calculated columns, and advanced analytics within tabular models. However, if you're looking for a **course outline that combines SQL and DAX for Data Analysis**, here’s a structured plan:

**Module 1: Introduction to SQL & DAX**

* Understanding Databases and SQL
* Introduction to Power BI and DAX
* Differences Between SQL and DAX
* How SQL and DAX Complement Each Other

**Module 2: SQL Basics for Data Analysis**

* Writing Basic Queries (SELECT, FROM, WHERE)
* Filtering and Sorting Data (ORDER BY, LIMIT, BETWEEN, LIKE)
* Aggregations in SQL (SUM, COUNT, AVG, MIN, MAX)
* Joining Tables (INNER JOIN, LEFT JOIN, RIGHT JOIN)

**Module 3: Introduction to DAX in Power BI**

* Understanding DAX and Its Importance
* Calculated Columns vs. Measures
* Basic DAX Syntax and Functions
* Using SUM(), AVERAGE(), COUNTROWS(), DISTINCTCOUNT()
* Introduction to CALCULATE() and FILTER()

**Module 4: SQL vs. DAX for Data Aggregation**

* Aggregating Data in SQL vs. DAX
* Using GROUP BY in SQL vs. SUMX() in DAX
* When to Use SQL Queries vs. DAX Expressions

**Module 5: Advanced Data Analysis with SQL and DAX**

* Subqueries in SQL vs. Virtual Tables in DAX
* Using SQL CASE vs. DAX SWITCH()
* SQL Window Functions (ROW\_NUMBER, RANK, DENSE\_RANK) vs. DAX RANKX()

**Module 6: Time Intelligence in SQL & DAX**

* Handling Date and Time Data in SQL
* Using DATEADD(), EOMONTH(), YEAR(), MONTH() in SQL
* Time Intelligence in DAX: TOTALYTD(), SAMEPERIODLASTYEAR(), DATESYTD()
* Creating Custom Time-Based Measures

**Module 7: Performance Optimization in SQL & DAX**

* Optimizing SQL Queries with Indexing and Query Plans
* Optimizing DAX Measures with Variables (VAR) and Performance Best Practices
* Understanding Storage Models: SQL Databases vs. Power BI Tabular Models

**Module 8: Real-World Use Cases & Integration**

* Using SQL to Prepare Data for Power BI
* Importing SQL Data into Power BI
* Combining SQL Queries and DAX Measures for Dashboards
* Case Studies: Financial Analysis, Sales Reporting, Customer Segmentation

**Bonus Module: SQL + DAX Hands-On Project**

* Building an End-to-End Dashboard Using SQL & DAX
* Writing Complex SQL Queries for Data Preparation
* Creating DAX Measures for Insights
* Performance Tuning for Large Datasets

This course structure ensures that **SQL and DAX work together**, helping data analysts and Power BI users **master both query languages** for better analytics and reporting. Would you like to customize it for a specific business domain (e.g., finance, sales, marketing)? 🚀