Course duration

3 days

Course Benefits

 Learn to gain a deeper knowledge and understanding of the Actian Matrix Architecture and SQL and how to write it.

Course Outline

- 1. What is Columnar?
 - 1. What is Parallel Processing?
 - 2. The Basics of a Single Computer
 - 3. Data in Memory is fast as Lightning
 - 4. Parallel Processing Of Data
 - 5. A Table has Columns and Rows
 - 6. Rows are placed inside a Data Block
 - 7. Moving Data Blocks is Like Checking in Luggage
 - 8. Facts That Are Disturbing
 - 9. Why Columnar?
 - 10. Row Based Blocks vs. Columnar Based Blocks
 - 11. As Row-Based Tables Get Bigger, the Blocks Split
 - 12. Data Blocks Are Processed One at a Time per Unit
 - 13. Columnar Tables Store Each Column in Separate Blocks
 - 14. Visualize the Data Rows vs. Columns
 - 15. The Architecture of Actian Matrix
 - 16. Matrix has Linear Scalability
 - 17. Distribution Styles
 - 18. Distribution Key Where the Data is Unique
 - 19. Another Way to Create a Table
 - 20. Distribution Key Where the Data is Non-Unique
 - 21. Even Distribution Key
 - 22. Matching Distribution Keys for Co-Location of Joins
 - 23. Big Table / Small Table Joins
 - 24. Fact and Dimension Table Distribution Key Designs
 - 25. Improving Performance by Defining a Sort Key
 - 26. Sort Keys Help Group By, Order by and Window Functions
 - 27. Each Block Comes With Metadata
 - 28. How Data Might Look On a Slice
 - 29. The ANALYZE Command Collects Statistics
 - 30. Matrix Automatically ANALYZES Some Create Statements

- 31. What is a Vacuum?
- 32. When is a Good Time to Vacuum?
- 33. The VACUUM Command Grooms a Table
- 34. The Matrix database catalog also needs periodic vacuuming and indexing
- 35. Database Limits
- 36. Creating a Database
- 37. Creating a User
- 38. Dropping a User
- 39. Inserting Into a Table
- 40. Renaming a Table or a Column
- 41. Adding and Dropping a Column to a Table
- 2. Best Practices for Table Design
 - 1. Converting Table Structures to Actian Matrix
 - 2. Converting Table Structures to Actian Matrix Finale
 - 3. Best Practices for Designing Tables
 - 4. Choose the Best Sort Key
 - 5. Each Block Comes With Metadata
 - 6. Creating a Sort Key
 - 7. Sort Keys Help Group By, Order by and Window Functions
 - 8. Choose a Great Distribution Key
 - 9. Distribution Key Where the Data is Unique
 - 10. Matching Distribution Keys for Co-Location of Joins
 - 11. Big Table / Small Table Joins
 - 12. Define Primary Key and Foreign Key Constraints
 - 13. Primary Key and Foreign Key Examples
 - 14. Use the Smallest Column Size When Creating Tables
 - 15. Use Date/Time Data Types for Date Columns
 - 16. Specify Redundant Predicates on the Sort Column
 - 17. Setting the statement_timeout to Abort Long Queries
- 3. Systems Tables
 - 1. Actian Matrix System Tables
 - 2. Trouble Shooting Catalog Table pg_table_def
 - 3. Seeing the System Tables in your Nexus Tree
 - 4. Catalog Table pg_table_def
 - 5. Checking Tables for Skew (Poor Distribution)
 - 6. Checking All Statements That Used the Analyze Command
 - 7. Checking Tables for Skew (Poor Distribution)
 - 8. Checking for Details about the Last Copy Operation
 - 9. Checking When a Table Has Last Been Analyzed
 - 10. Checking For Column Information on a Table
 - 11. System tables for troubleshooting data loads
 - 12. Determining Whether a Query is writing to Disk
- 4. Compression
 - 1. Compression Types
 - 2. Byte Dictionary Compression
 - 3. Delta Encoding
 - 4. Deflate Encoding Lempel-Ziv-Oberhumer (LZO)

- 5. Mostly Encoding
- 6. Runlength encoding
- 7. Text255 and Text32k Encodings
- 8. Analyze Compression using xpx 'complyze'
- 9. Analyze Results from xpx 'complyze'
- 10. Copy

5. Temporary Tables

- 1. Create Table Syntax
- 2. Basic Temporary Table Examples
- 3. More Advanced Temporary Table Examples
- 4. Advanced Temporary Table Examples
- 5. Table Limits and CTAS
- 6. Performing a Deep Copy
- 7. Deep Copy Using the Original DDL
- 8. Deep Copy Using A CTAS
- 9. Deep Copy Using A Create Table LIKE
- 10. Deep Copy by Creating a Temp Table and Truncating Original
- 11. CREATING A Derived Table
- 12. The Three Components of a Derived Table
- 13. Naming the Derived Table
- 14. Aliasing the Column Names in the Derived Table
- 15. Visualize This Derived Table
- 16. Most Derived Tables Are Used To Join To Other Tables
- 17. Multiple Ways to Alias the Columns in a Derived Table
- 18. Our Join Example with a Different Column Aliasing Style
- 19. Column Aliasing Can Default for Normal Columns
- 20. CREATING a Derived Table using the WITH Command
- 21. Our Join Example With the WITH Syntax
- 22. WITH Statement That Uses a SELECT *
- 23. A WITH Clause That Produces Two Tables
- 24. The Same Derived Query shown Three Different Ways
- 25. Clever Tricks on Aliasing Columns in a Derived Table
- 26. A Derived Table lives only for the lifetime of a single query
- 27. An Example of Two Derived Tables in a Single Query
- 28. Connecting To Matrix via Nexus

6. Explain

- 1. Three Ways to Run an EXPLAIN
- 2. EXPLAIN Steps, Segments and Streams
- 3. EXPLAIN Terms for Scans and Joins
- 4. EXPLAIN Terms for Aggregation and Sorts
- 5. EXPLAIN Terms for Set Operators and Miscellaneous Terms
- 6. EXPLAIN Terms for Set Operators and Miscellaneous Terms
- 7. EXPLAIN Example and the Cost
- 8. EXPLAIN Example and the Rows
- 9. EXPLAIN Example and the Width
- 10. Simple EXPLAIN Example and the Costs
- 11. EXPLAIN Join Example Using DS BCAST INNER

- 12. EXPLAIN Join Example Using DS_DIST_NONE
- 13. EXPLAIN Showing DS_DIST_NONE Visually
- 14. EXPLAIN With a Warning
- 15. EXPLAIN for Ordered Analytics Such as CSUM
- 16. EXPLAIN for Scalar Aggregate Functions
- 17. EXPLAIN for HashAggregate Functions
- 18. EXPLAIN Using Limit, Merge and Sort
- 19. EXPLAIN Using a WHERE Clause Filter
- 20. EXPLAIN Using the Keyword Distinct
- 21. EXPLAIN for Subqueries

7. Basic SQL Functions

- 1. Finding the Current Schema on the Leader Node
- 2. Getting Things Setup in Your Search Path
- 3. Five Details You Need To Know About the Search_Path
- 4. Introduction
- 5. SELECT * (All Columns) in a Table
- 6. SELECT Specific Columns in a Table
- 7. Commas in the Front or Back?
- 8. Place your Commas in front for better Debugging Capabilities
- 9. Sort the Data with the ORDER BY Keyword
- 10. ORDER BY Defaults to Ascending
- 11. Use the Name or the Number in your ORDER BY Statement
- 12. Two Examples of ORDER BY using Different Techniques
- 13. Changing the ORDER BY to Descending Order
- 14. NULL Values sort First in Ascending Mode (Default)
- 15. NULL Values sort Last in Descending Mode (DESC)
- 16. Major Sort vs. Minor Sorts
- 17. Multiple Sort Keys using Names vs. Numbers
- 18. Sorts are Alphabetical, NOT Logical
- 19. Using A CASE Statement to Sort Logically
- 20. How to ALIAS a Column Name
- 21. A Missing Comma can by Mistake become an Alias
- 22. Comments using Double Dashes are Single Line Comments
- 23. Comments for Multi-Lines
- 24. Comments for Multi-Lines as Double Dashes Per Line
- 25. A Great Technique for Comments to Look for SQL Errors

8. The WHERE Clause

- 1. Using Limit to bring back a Sample
- 2. Using Limit with an Order by Statement
- 3. The WHERE Clause limits Returning Rows
- 4. Using a Column ALIAS throughout the SQL
- 5. Double Quoted Aliases are for Reserved Words and Spaces
- 6. Character Data needs Single Quotes in the WHERE Clause
- 7. Character Data needs Single Quotes, but Numbers Don't
- 8. NULL means UNKNOWN DATA so Equal (=) won't Work
- 9. Use IS NULL or IS NOT NULL when dealing with NULLs
- 10. NULL is UNKNOWN DATA so NOT Equal won't Work

- 11. Use IS NULL or IS NOT NULL when dealing with NULLs
- 12. Using Greater Than or Equal To (>=)
- 13. AND in the WHERE Clause
- 14. Troubleshooting AND
- 15. OR in the WHERE Clause
- 16. Troubleshooting Or
- 17. Troubleshooting Character Data
- 18. Using Different Columns in an AND Statement
- 19. What is the Order of Precedence?
- 20. Using Parentheses to change the Order of Precedence
- 21. Using an IN List in place of OR
- 22. The IN List is an Excellent Technique
- 23. IN List vs. OR brings the same Results
- 24. Using a NOT IN List
- 25. A Technique for Handling Nulls with a NOT IN List
- 26. Another Technique for Handling Nulls with a NOT IN List
- 27. BETWEEN is Inclusive
- 28. NOT BETWEEN is Also Inclusive
- 29. LIKE command Underscore is Wildcard for one Character
- 30. LIKE Command Works Differently on Char Vs Varchar
- 31. The Ilike Command Is NOT Case Sensitive
- 32. Troubleshooting LIKE Command on Character Data
- 33. Introducing the TRIM Command
- 34. Numbers are Right Justified and Character Data is Left
- 35. An Example of Data with Left and Right Justification
- 36. A Visual of CHARACTER Data vs. VARCHAR Data
- 37. Use the TRIM command to remove spaces on CHAR Data
- 38. Like and Your Escape Character of Choice
- 39. Like and the Default Escape Character
- 40. Similar To Operators
- 41. Similar To Example with Lower Case Letters
- 42. Similar To Example with Lower and Upper Case Letters
- 43. Similar To Example with Multiple Occurrences
- 44. Multiple Occurrences Must Be Consecutive
- 9. Distinct Vs Group By AND TOP
 - 1. The Distinct Command
 - 2. Distinct vs. GROUP BY
 - 3. TOP Command
 - 4. TOP Command is brilliant when ORDER BY is used!
 - 5. What is the Difference between TOP and LIMIT?
- 10. Aggregation
 - 1. The 3 Rules of Aggregation
 - 2. There are Five Aggregates
 - 3. Troubleshooting Aggregates
 - 4. GROUP BY when Aggregates and Normal Columns Mix
 - 5. GROUP BY delivers one row per Group
 - 6. GROUP BY Dept No or GROUP BY 1 the same thing

- 7. Limiting Rows and Improving Performance with WHERE
- 8. WHERE Clause in Aggregation limits unneeded Calculations
- 9. Keyword HAVING tests Aggregates after they are Totaled
- 10. Keyword HAVING is like an Extra WHERE Clause for Totals

11. Join Functions

- 1. A Two-Table Join Using Traditional Syntax
- 2. A two-table join using Non-ANSI Syntax with Table Alias
- 3. You Can Fully Qualify All Columns
- 4. A two-table join using ANSI Syntax
- 5. Both Queries have the same Results and Performance
- 6. LEFT OUTER JOIN
- 7. LEFT OUTER JOIN Results
- 8. Left Outer Joins Compatible with Oracle
- 9. RIGHT OUTER JOIN
- 10. RIGHT OUTER JOIN Example and Results
- 11. Right Outer Joins Compatible with Oracle
- 12. Right Outer Joins Compatible with Oracle
- 13. FULL OUTER JOIN
- 14. FULL OUTER JOIN Results
- 15. Which Tables are the Left and which are the Right?
- 16. INNER JOIN with Additional AND Clause
- 17. ANSI INNER JOIN with Additional AND Clause
- 18. ANSI INNER JOIN with Additional WHERE Clause
- 19. OUTER JOIN with Additional WHERE Clause
- 20. OUTER JOIN with Additional AND Clause
- 21. OUTER JOIN with Additional AND Clause Results
- 22. The DREADED Product Join
- 23. The DREADED Product Join Results
- 24. The Horrifying Cartesian product Join
- 25. The ANSI Cartesian Join will ERROR
- 26. The CROSS JOIN
- 27. The CROSS JOIN Answer Set
- 28. The Self Join
- 29. The Self Join with ANSI Syntax
- 30. How would you join these two tables?
- 31. An Associative Table is a Bridge that Joins Two Tables

12. Date Functions

- 1. Current Date
- 2. TIMEOFDAY ()
- 3. SYSDATE Returns a Timestamp with Microseconds
- 4. GETDATE Returns a Timestamp without Microseconds
- 5. Add or Subtract Days from a date
- 6. The ADD MONTHS Command Returns a Timestamp
- 7. The ADD MONTHS Command with Trunc Removes Time
- 8. ADD MONTHS Command to Add 1-Year or 5-Years
- 9. Dateadd Function and Add_Months Function are Different
- 10. The EXTRACT Command

- 11. EXTRACT from DATES and TIME
- 12. EXTRACT with DATE and TIME Literals
- 13. EXTRACT of the Month on Aggregate Queries
- 14. The Datediff command
- 15. The Datediff Function on Column Data
- 16. The Date_Part Function Using a Date
- 17. The Date_Part Function Using a Time
- 18. Date Part Abbreviations
- 19. The to char command
- 20. Conversion Functions
- 21. Conversion Function Templates
- 22. Conversion Function Templates Continued
- 23. Formatting a Date
- 24. A Summary of Math Operations on Dates
- 25. Using a Math Operation to find your Age in Years
- 26. Date Related Functions
- 27. A Side Title example with Reserved Words as an Alias
- 28. Implied Extract of Day, Month and Year
- 29. DATE_PART Function
- 30. DATE_PART Function using an ALIAS
- 31. DATE_TRUNC Function
- 32. DATE_TRUNC Function using TIME
- 33. MONTHS BETWEEN Function
- 34. MONTHS BETWEEN Function in Action
- 35. ANSI TIME
- 36. ANSI TIMESTAMP
- 37. Matrix TIMESTAMP Function
- 38. Matrix TO TIMESTAMP Function
- 39. Matrix NOW () Function
- 40. Matrix TIMEOFDAY Function
- 41. Matrix AGE Function
- 42. Time Zones
- 43. Setting Time Zones
- 44. Using Time Zones
- 45. Intervals for Date, Time and Timestamp
- 46. Using Intervals
- 47. Troubleshooting the Basics of a Simple Interval
- 48. Interval Arithmetic Results
- 49. A Date Interval Example
- 50. A Time Interval Example
- 51. A DATE Interval Example
- 52. A Complex Time Interval Example using CAST
- 53. A Complex Time Interval Example using CAST
- 54. The OVERLAPS Command
- 55. An OVERLAPS Example that Returns No Rows
- 56. The OVERLAPS Command using TIME
- 57. The OVERLAPS Command using a NULL Value

13. OLAP Functions

- 1. CSUM
- 2. CSUM The Sort Explained
- 3. CSUM Rows Unbounded Preceding Explained
- 4. CSUM Making Sense of the Data
- 5. CSUM Making Even More Sense of the Data
- 6. CSUM The Major and Minor Sort Key(s)
- 7. Reset with a PARTITION BY Statement
- 8. PARTITION BY only Resets a Single OLAP not ALL of them
- 9. ANSI Moving Window is Current Row and Preceding n Rows
- 10. How ANSI Moving SUM Handles the Sort
- 11. Moving SUM every 3-rows Vs a Continuous Average
- 12. Partition by Resets an ANSI OLAP
- 13. Moving Average
- 14. The Moving Window is Current Row and Preceding
- 15. How Moving Average Handles the Sort
- 16. Moving Average every 3-rows Vs a Continuous Average
- 17. Partition by Resets an ANSI OLAP
- 18. RANK Defaults to Ascending Order
- 19. Getting RANK to Sort in DESC Order
- 20. RANK () OVER and PARTITION BY
- 21. RANK () OVER and LIMIT
- 22. PERCENT_RANK () OVER
- 23. PERCENT_RANK () OVER with 14 rows in Calculation
- 24. PERCENT_RANK () OVER with 21 rows in Calculation
- 25. COUNT OVER for a Sequential Number
- 26. The MAX OVER Command
- 27. MAX OVER with PARTITION BY Reset
- 28. The MIN OVER Command
- 29. The Row_Number Command
- 30. Standard Deviation Functions Using STDDEV / OVER
- 31. Standard Deviation Functions and STDDEV / OVER Syntax
- 32. STDDEV / OVER Example
- 33. VARIANCE / OVER Syntax
- 34. Variance Functions Using VARIANCE / OVER
- 35. Using VARIANCE with PARTITION BY Example
- 36. Using FIRST_VALUE and LAST_VALUE
- 37. Using FIRST_VALUE
- 38. Using LAST_VALUE
- 39. Using LAG and LEAD
- 40. Using LEAD
- 41. Using LEAD With and Offset of 2
- 42. Using LAG
- 43. Using LAG with an Offset of 2
- 14. Temporary Tables
 - 1. CREATING A Derived Table
 - 2. The Three Components of a Derived Table

- 3. Naming the Derived Table
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- 20. More Advanced Temporary Table Examples
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- 22. Performing a Deep Copy
- 23. Deep Copy Using the Original DDL
- 24. Deep Copy Using A CTAS
- 25. Deep Copy Using A Create Table LIKE
- 26. Deep Copy by Creating a Temp Table and Truncating Original

15. Sub-query Functions

- 1. An IN List is much like a Subquery
- 2. An IN List Never has Duplicates Just like a Subquery
- 3. An IN List Ignores Duplicates
- 4. The Subquery
- 5. The Three Steps of How a Basic Subquery Works
- 6. These are Equivalent Queries
- 7. The Final Answer Set from the Subquery
- 8. Should you use a Subquery or a Join?
- 9. The Basics of a Correlated Subquery
- 10. The Top Query always runs first in a Correlated Subquery
- 11. Correlated Subquery Example vs. a Join with a Derived Table
- 12. How the Double Parameter Subquery Works
- 13. More on how the Double Parameter Subquery Works
- 14. How to handle a NOT IN with Potential NULL Values
- 15. Using a Correlated Exists
- 16. How a Correlated Exists matches up
- 17. The Correlated NOT Exists
- 18. The Correlated NOT Exists Answer Set
- 16. Substrings and Positioning Functions
 - 1. The TRIM Command trims both Leading and Trailing Spaces
 - 2. A Visual of the TRIM Command Using Concatenation
 - 3. Trim and Trailing is Case Sensitive

- 4. How to TRIM Trailing Letters
- 5. The SUBSTRING Command
- 6. How SUBSTRING Works with NO ENDING POSITION
- 7. Using SUBSTRING to move backwards
- 8. How SUBSTRING Works with a Starting Position of -1
- 9. How SUBSTRING Works with an Ending Position of 0
- 10. The POSITION Command finds a Letters Position
- 11. Using the SUBSTRING to Find the Second Word On
- 12. Concatenation
- 13. Concatenation and SUBSTRING
- 14. Four Concatenations Together
- 15. Troubleshooting Concatenation
- 16. Declaring a Cursor

17. Interrogating the Data

- 1. The NULLIF Command
- 2. The ISNULL, NVL and COALESCE Commands
- 3. The ISNULL, NVL and COALESCE more examples
- 4. The COALESCE Answer Set
- 5. The Basics of CAST (Convert and Store)
- 6. Some Great CAST (Convert and Store) Examples
- 7. The Basics of the CASE Statements
- 8. The Basics of the CASE Statement
- 9. Valued Case Vs. A Searched Case
- 10. When an ELSE is present in CASE Statement
- 11. When an Alias is NOT used in a CASE Statement
- 12. Combining Searched Case and Valued Case
- 13. Nested Case
- 14. Put a CASE in the ORDER BY

18. View Functions

- 1. Creating a Simple View to Restrict Sensitive Columns
- 2. Creating a Simple View to Restrict Rows
- 3. Creating a View to Join Tables Together
- 4. You Select From a View
- 5. Basic Rules for Views
- 6. An ORDER BY Example Inside of a View
- 7. An ORDER BY Inside of a View that is Queried Differently
- 8. Creating a View with Ordered Analytics
- 9. Creating a View with the TOP Command
- 10. Creating a View with the LIMIT Command
- 11. Altering a Table
- 12. Altering a Table after a View has been created
- 13. A View that Errors after an ALTER
- 14. Troubleshooting a View
- 15. Updating Data in a Table through a View

19. Set Operators Functions

- 1. Rules of Set Operators
- 2. INTERSECT Explained Logically

- 3. INTERSECT Explained Logically
- 4. UNION Explained Logically
- 5. UNION Explained Logically
- 6. UNION ALL Explained Logically
- 7. UNION Explained Logically
- 8. EXCEPT Explained Logically
- 9. EXCEPT Explained Logically
- 10. Minus Explained Logically
- 11. Minus Explained Logically
- 12. Testing Your Knowledge
- 13. Testing Your Knowledge
- 14. An Equal Amount of Columns in both SELECT List
- 15. Columns in the SELECT list should be from the same Domain
- 16. The Top Query handles all Aliases
- 17. The Bottom Query does the ORDER BY (a Number)
- 18. Great Trick: Place your Set Operator in a Derived Table
- 19. UNION Vs UNION ALL
- 20. A Great Example of how EXCEPT works

20. Statistical Aggregate Functions

- 1. The Stats Table
- 2. STDDEV
- Casting STDDEV_SAMP and SQRT (VAR_SAMP)
- 4. The STDDEV POP Function
- 5. A STDDEV_POP Example
- 6. The STDDEV SAMP Function
- 7. A STDDEV_SAMP Example
- 8. The VAR_POP Function
- 9. A VAR_POP Example
- 10. The VAR_SAMP Function
- 11. A VAR_SAMP Function

21. Nexus

- 1. Nexus is Now Available on the Microsoft Azure Cloud
- 2. Nexus Queries Every Major System
- 3. Setup of Nexus is as easy as pie
- 4. Setup of Nexus is a Easy as 1, 2, 3
- 5. Nexus Data Visualization
- 6. Nexus Data Visualization
- 7. Nexus Data Visualization Shows What Tables Can Be Joined
- 8. Nexus is doing a Five-Table Join
- 9. Nexus Generates the SQL Automatically
- 10. Nexus Delivers the Report
- 11. Cross-System Joins from Teradata, Oracle and SQL Server
- 12. The Tab of the Super Join Builder
- 13. The 9 Tabs of the Super Join Builder Objects Tab 1
- 14. Selecting Columns in the Objects Tab
- 15. The 9 Tabs of the Super Join Builder Columns Tab 2
- 16. Removing Columns from the Report in the Columns Tab

- 17. The 9 Tabs of the Super Join Builder Sorting Tab 3
- 18. The 9 Tabs of the Super Join Builder Joins Tab 4
- 19. The 9 Tabs of the Super Join Builder Where Tab 5
- 20. Using the WHERE Tab For Additional WHERE or AND
- 21. The 9 Tabs of the Super Join Builder SQL Tab 6
- 22. The 9 Tabs of the Super Join Builder Answer Set Tab 7
- 23. The 9 Tabs of the Super Join Builder Analytics Tab 9
- 24. Analytics Tab
- 25. Analytics Tab OLAP Example
- 26. Analytics Tab OLAP Example of SQL Generated
- 27. Analytics Tab Grouping Sets Example
- 28. Analytics Tab Grouping Sets Answer Set
- 29. Nexus Data Movement
- 30. Moving a Single Table to a Different System
- 31. The Single Table Data Movement Screen
- 32. Moving an Entire Database to a Different System
- 33. The Database Mover Screen
- 34. The Database Mover Options Tab
- 35. Converting DDL Table Structures
- 36. Converting DDL Table Structures
- 37. Converting DDL Table Structures
- 38. Hound Dog Compression
- 39. Hound Dog Compression on Teradata

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.