

# Teradata Course Curriculum

## Teradata introduction

- Teradata Introduction
- Teradata Advantages
- Teradata Tools & Utilities
- Teradata Installation
- Teradata Tools & Utilities Installation

## RDBMS/Data warehousing Basics

- What is data warehouse
- OLTP Vs Data warehouse
- Data warehouse Architecture

## Teradata Architecture

- Teradata Components (Parsing Engine, BYNET, Access Module Processor)
- How Teradata components interact with each other
- Storage & Retrieval architecture
- System architecture
- What is a Node

## Basic SQL

- Data types
- DDL statements (CREATE, DROP, ALTER)
- DML statements (SELECT, INSERT, UPDATE, DELETE)
- SET Operators (UNION, UNION ALL, INTERSECT, MINUS)
- Logical & Conditional Operators
- String Manipulation
- Date & Time Manipulation

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- Joins
- Built-in functions
- Aggregates
- Explain plan

## Indexes

- Primary Index (UPI, NUPI)
- Secondary Index (USI, NUSI)
- Partition Primary Index

## Teradata Objects

- SET vs MULTiset tables
- Derived Tables
- Volatile Tables
- Global Temporary Tables
- Views
- Macros
- Stored Procedures
- Single Table Join Index
- Multi Table Join Index
- Aggregate Join Index
- Space concepts (Perm, Spool, Temp)
- Triggers

## Advanced SQL

- Subqueries
- Coalesce
- OLAP Functions (Rank, Row\_Number, Qualify, Partition by, Rows Unbounded preceding/following)
- Compression

- Collect Statistics
- DBC tables
- Teradata Transaction Modes

## Data Protection

- Fallback
- Clusters
- Clique
- Permanent Journals
- Hot Standby Nodes
- RAID

## Performance Optimization

- Join Strategies
- Confidence levels
- Statistics collection process
- Performance tuning techniques