

## TERADATA:

Teradata is an enterprise software company that develops and sells database analytics software subscriptions. The company provides three main services: business analytics, cloud products, and consulting. It operates in North and Latin America, Europe, the Middle East, Africa and Asia.

Teradata is a popular Relational Database Management System (RDBMS) suitable for large data warehousing applications. It is capable of handling large volumes of data and is highly scalable. This tutorial provides a good understanding of Teradata Architecture, various SQL commands, Indexing concepts and Utilities to import/export data.

Teradata Corporation is a provider of database and analytics-related software, products, and services. The company was formed in 1979 in Brentwood, California, as collaboration between researchers at Caltech and Citibank's advanced technology group

Teradata offers three main services to its customers: cloud and hardware-based data warehousing, business analytics, and consulting services. In September 2016, the company launched Teradata Everywhere, which allows users to submit queries against public and private databases. The service uses massively parallel processing across both its physical data warehouse and cloud storage, including managed environments such as Amazon Web Services, Microsoft Azure, VMware, and Teradata's Managed Cloud and IntelliFlex. Teradata offers customers both hybrid cloud and multi-cloud storage. In March 2017, Teradata introduced Teradata Intel iCloud, a secure managed cloud for data and analytic software as a service. Intel iCloud is compatible with Teradata's data warehouse platform, IntelliFlex the Teradata Analytics Platform was unveiled in 2017.

## Course Content:

### Teradata Engineering and Components:

- PDE(Parallel Information Extension)
- Process (virtual processors)
- PE (Parsing Engine)
- AMP (Access Module processing)
- Board less By net
- TDP (Teradata Catalog Program)
- CLI (Call Level Interface)
- TPA (Confided in equal Application)
- Going top to bottom by clarifying the procedure of SQL articulation execution

### Various Architecture:

- Node Design (shared nothing)
- SMP Architecture
- MPP Architecture
- Parallelism Architecture
- Benefit and types

## Data Recuperation and Protection:

- Object Locks-Different locks for concurrent access
- RAID1
- RAID15
- Disk Arrays
- Fall Back
- Clique
- AMP Clustering
- Journals

## Teradata Stockpiling and Recovery Architecture:

- Request processing
- Syntaxes
- Resolver
- Security Module
- Optimizer
- E .Step Generator
- GNC Apply

- Dispatcher

### Primary index:

- Hash algorithm
- Row hash
- DSW
- Hash Map
- Hash Bucket
- Reaching V disk

### Teradata Indexes:

- Primary Index
- Unique
- Non unique
- Partitioned
- Secondary Index
- Unique
- Non unique
- Hash, Join, Worth Ordered
- Skewness

- Secondary File Sub table
- Accessing Records by means of essential index
- Accessing records by means of Auxiliary index
- Keys versus indexes

### Teradata SQL Reference:

- Fundamentals
- Data Types and Literals
- Data Definition Statements
- Data control statements

### Teradata Capacities and Operators:

- String functions
- Format functions
- Cast functions
- Group and Total functions
- With and with by clauses

### Teradata Transactions:

- Implicit Transaction
- Explicit Transaction

### Performance Tuning and Clarify Utility:

- Explain Usage
- Collection Statistics
- Tuning SQL Performance
- Usage of PMON
- Joins and Unions
- Inner Join
- Left External Join
- Right External join
- Full External Join

### Teradata Essential Commands:

- HELP
- SHOW

- EXPLAIN
- COLLECT STATISTICS

### Teradata objects:

- Tables
  - SET table
  - Multi Set table
  - Volatile tables
  - Global Impermanent tables
  - Derived tables
- Views
- Macros
- Stored procedures
- Triggers

### Teradata spaces:

- PERM space
- SPOOL space
- TEMPORARY space

- Teradata client and managing.
- Teradata Exchange Modes
- BTET
- ANSI
- Interactive
- Batch

### Load and Empty Utilities and Tools:

- Teradata SQL Aide (Inquiry man)
- Teradata Execution Monitor
- Teradata BTEQ
- Batch Contents with samples
- Branching and Looping
- Importing information through scripts
- Exporting information through scripts
- Session Control Direction Set
- Error handling.
- Teradata Quick load
- Various Periods of Quick Load





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- Advantages and Process
- Limitations of Quick Load
- Sample scripts
- Teradata Multi Load
- Various Periods of Multi load
- Limitations of Multi Load
- Working with various tables
- Applying different operations
- Sample Scripts

### Our learning methods include:

- Comprehensive course selection of Instructor-Led Training
- Logistical convenience and interactive classroom experience of Online Training
- Flexible pacing and instructor-guided support of Mentored Learning
- Self-paced convenience of Online ANYTIME



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### In addition:

- Interview preparation with mock interview drills
- Effective resume building
- Process of applying jobs at the right places

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