

TERADATA DBA COURSE CONTENT

❖ **WHAT IS TERADATA WHY FOR IT IS WHAT FOR IT IS:**

- What is Teradata
- Teradata v12 & versions
- Teradata History
- Teradata users scalability
- Teradata & other RDBMS
- Teradata warehouse
- Interview Q&A and Certification queries
- Real time Issues & resolving

❖ **TERADATA ARCHITECTURE & IT'S COMPONENTS:**

- Node Architecture
- SMP Architecture
- MPP Architecture
- Parsing engine(PE) Architecture
- AMP Architecture & uses
- Bynet Benefits & types
- Parallel data extension(PDE)
- Teradata directory program(TDP)
- Call level interface(CLI)
- Trusted parallel application(TPA)
- Virtual processors
- Bynet 0 & Bynet 1

❖ **RECOVERY & PROTECTION OF DATA:**

- What is fall back & where it used
- Why for fall back
- What is Clique
- Locks & types
- Why for locks & how to release
- RAID 1 & RAID 5
- Journals & types
- How & where is used journals
- Q & A about data recovery

❖ **TERADATA INDEXES:**

- Types of indexes in Teradata
- Hash index
- Join index
- Primary index(unique, non- unique)
- Secondary index(unique, non- unique)
- Skewness
- Keys & indexes (How & why these used)

❖ **HOW TO STORAGE & RETRIEVAL OF DATA:**

- Hash algorithm
- Row hash
- Hash map
- Hash bucket

- Receiving VDisc

❖ **TERADATA SQL QUARRYMAN:**

- SQL fundamentals
- Data types and literals
- DDL Statements
- DML Statements
- Teradata naming conversing

❖ **TERADATA SQL FUNCTIONS & OPERATIONS:**

- String functions
- Format functions
- Cast functions
- Cast functions
- Group & Aggregation functions
- Logical operations
- Arithmetic operations
- Set operations
- Join operations
- Conditional expressions

❖ **TERADATA JOIN STRATEGIES & UNIONS:**

- Hash join
- Merge join
- Nested join
- Product join
- Inner join
- Left & right outer join
- Full outer join

❖ **TERADATA BASIC COMMANDS:**

- Help
- Show
- Explain
- Collect statistics

❖ **TERADATA OBJECTS:**

- Types of tables
 - Set tables
 - Multi tables
 - Volatile tables
 - Global temporary tables
 - Derived tables
- Views
- Macros
- Stored procedures
- Triggers

❖ **TERADATA MEMORY SPACES:**

- Permanent spaces
- Temporary spaces

- Spool spaces
- Users spaces & PWD

❖ **TERADATA TRANSACTION MODES:**

- Batch mode
- BTET mode
- ANSI mode
- How Converted into others

❖ **TERADATA PERFORMANCE TUNING ON SQL ASSISTANCE:**

- Usage of PMON
- Explain usage
- Collecting statistics
- SQL tuning
- Various SQL statements
- Real time Issues & resolving

❖ **TERADATA UTILITIES & TOOLS (IMPORT & EXPORT):**

- **Teradata BTeq scripts**
 - Overview of BTeq
 - Looping stages
 - Batches scripts
 - Import & export scripts with Examples
 - Error handling
 - Real time scripts
- **Teradata Fast load**
 - Types of phages & how to find it
 - Advantages & its process
 - Limitations of fast load
 - Real time scripts
- **Teradata Multi Load**
 - Overview of Multi load
 - Types of phages in Multi Load
 - Advantages & its process
 - Limitations of Multi Load
 - Uses various types of operations
 - Work on Multi tables
 - Real time scripts
 - Sample scripts
- **Teradata T pump**
 - Overview of T pump
 - Limitations of T pump
 - Work on Multi tables
 - Real time scripts
 - Sample scripts
- **Teradata Fast Export**
 - How to export the data
 - Passing parameters
 - IN/OUT Modes
 - Work on Multi tables
 - Real time scripts
 - Sample scripts



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- Teradata SQL Assistant(Quarryman)
- Teradata Performance Monitor
- Teradata Administrator Usage
- Teradata Performance Tuning on Scripts

