

## TERADATA Course Content

<p><b>Overview of the TERADATA</b></p> <ul style="list-style-type: none"> <li>❖ What is Teradata?</li> <li>❖ Teradata v12 &amp; versions</li> <li>❖ Teradata History</li> <li>❖ Teradata users scalability</li> <li>❖ Teradata &amp; other RDBMS</li> <li>❖ Teradata warehouse</li> <li>❖ Teradata in the Enterprise</li> <li>❖ Interview Q&amp;A and Certification queries</li> <li>❖ Real time Issues &amp; resolving</li> </ul> <p><b>TERADATA ARCHITECTURE &amp; IT'S COMPONENTS</b></p> <ul style="list-style-type: none"> <li>❖ Node Architecture(Shared Architecture)</li> <li>❖ SMP Architecture</li> <li>❖ MPP Architecture</li> <li>❖ Parsing engine(PE) Architecture</li> <li>❖ AMP Architecture &amp; uses</li> <li>❖ Bynet Benefits &amp; types</li> <li>❖ Parallel data extension(PDE)</li> <li>❖ Teradata directory program(TDP)</li> <li>❖ Call level interface(CLI)</li> <li>❖ Trusted parallel application(TPA)</li> <li>❖ Virtual processors</li> <li>❖ Bynet 0 &amp; Bynet 1</li> <li>❖ Parallelism Architecture</li> </ul> <p><b>RECOVERY &amp; PROTECTION OF DATA</b></p> <ul style="list-style-type: none"> <li>❖ What is fall back &amp; where it used</li> <li>❖ Why for fall back</li> <li>❖ What is Clique</li> <li>❖ AMP Clustering</li> <li>❖ &amp; types for simultaneous Access</li> <li>❖ Why for locks &amp; how to release</li> <li>❖ RAID 1 &amp; RAID 5</li> <li>❖ Journals &amp; types</li> <li>❖ Virtual Disk Array</li> <li>❖ How &amp; where is used journals</li> <li>❖ Q &amp; A about data recovery</li> </ul> <p><b>TERADATA INDEXES</b></p> <ul style="list-style-type: none"> <li>❖ Types of indexes in Teradata</li> <li>❖ Hash index</li> <li>❖ Join index</li> <li>❖ Primary index(unique, non- unique)</li> <li>❖ Secondary index(unique, non- unique)</li> <li>❖ Skewness</li> <li>❖ Keys &amp; indexes (How &amp; why these used)</li> </ul> <p><b>HOW TO STORAGE &amp; RETRIEVAL OF DATA</b></p> <ul style="list-style-type: none"> <li>❖ Hash algorithm</li> <li>❖ hash</li> <li>❖ Hash map</li> <li>❖ Hash bucket</li> <li>❖ Receiving VDisc</li> <li>❖ Day2</li> </ul> <p><b>TERADATA SQL QUARRYMAN</b></p> <ul style="list-style-type: none"> <li>❖ SQL fundamentals</li> <li>❖ Data types and literals</li> <li>❖ DDL Statements</li> <li>❖ DML Statements</li> <li>❖ Teradata naming conversing</li> </ul>	<p><b>TERADATA SQL FUNCTIONS &amp; OPERATIONS</b></p> <ul style="list-style-type: none"> <li>❖ String functions</li> <li>❖ Format functions</li> <li>❖ Cast functions</li> <li>❖ Cast functions</li> <li>❖ Group &amp; Aggregation functions</li> <li>❖ Logical operations</li> <li>❖ Arithmetic operations</li> <li>❖ set operations</li> <li>❖ join operations</li> <li>❖ conditional expressions</li> </ul> <p><b>TERADATA JOIN STRATEGIES &amp; UNIONS</b></p> <ul style="list-style-type: none"> <li>❖ hash join</li> <li>❖ merge join</li> <li>❖ nested join</li> <li>❖ product join</li> <li>❖ inner join</li> <li>❖ left &amp; right outer join</li> <li>❖ full outer join</li> </ul> <p><b>TERADATA BASIC COMMANDS</b></p> <ul style="list-style-type: none"> <li>❖ Help</li> <li>❖ Show</li> <li>❖ Explain</li> <li>❖ Collect statistics</li> </ul> <p><b>TERADATA OBJECTS</b></p> <ul style="list-style-type: none"> <li>❖ Types of tables</li> <li>❖ Set tables</li> <li>❖ Multi tables</li> <li>❖ Volatile tables</li> <li>❖ Global temporary tables</li> <li>❖ Derived tables</li> <li>❖ Views</li> <li>❖ Macros</li> <li>❖ Stored procedures</li> <li>❖ Triggers</li> </ul> <p><b>TERADATA MEMORY SPACES</b></p> <ul style="list-style-type: none"> <li>❖ Permanent spaces</li> <li>❖ Temporary spaces</li> <li>❖ Spool spaces</li> <li>❖ Users spaces &amp; PWD</li> </ul> <p><b>TERADATA TRANSACTION MODES</b></p> <ul style="list-style-type: none"> <li>❖ Batch mode</li> <li>❖ BTET mode</li> <li>❖ ANSI mode</li> <li>❖ How Converted into others</li> </ul> <p><b>TERADATA PERFORMANCE TUNING ON SQL ASSISTANCE</b></p> <ul style="list-style-type: none"> <li>❖ Usage of PMON</li> <li>❖ Explain usage</li> <li>❖ Collecting statistics</li> <li>❖ SQL tuning</li> <li>❖ Various SQL statements</li> <li>❖ Real time Issues &amp; resolving</li> </ul>
---	---

## 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 FastLoad
- ❖ Types of phages & how to find it
- ❖ Advantages & its process
- ❖ Limitations of fast load
- ❖ Real time scripts
- ❖ Teradata MultiLoad
- ❖ Overview of Multi load
- ❖ Types of phages in MultiLoad
- ❖ Advantages & its process
- ❖ Limitations of MultiLoad
- ❖ 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
- ❖ Teradata SQL Assistant(Quarryman)
- ❖ Teradata performance tuning on scripts