Teradata Basics

Lesson 04: Teradata Utilities Fast Export

Introduction about Teradata Utility

- What is the need of Teradata utilities in Data ware house:
- Quick access to data for more timely decision making.
- Solutions for the entire spectrum of load requirements from batch to real time.
- Unmatched scalability for large volume loads.
- Fail-proof loads with checkpoint restart capabilities.
- Proven technology from the data warehouse technology leader.
- Integration with industry-leading ETL and ELT tools.



Introduction about Teradata Utility

- Teradata Utilities:
- BTEQ: Help for Report formatting, Ad hoc query tool, Database administration, Best for small data volumes
- Fast Export : High-performance data unload in client format.
- Fast Load: High-performance initial table load.
- Multi Load: High-performance maintenance operations multiple tables in single pass.
- Apart from this Teradata having other utilities like Teradata Parallel Transporter, Tpumps etc.



Module Object

- Fast Export Definition
- Supporting Environment
- Execution Process
- Start with .BEGIN EXPORT and .END EXPORT
- Set the output file with .EXPORT
- Fast Export Support and Task Commands
- Some key features of Fast Export



Fast Export Definition

- Fast export known for its lighting speed, it comes to exporting large volumes of formatted data from Teradata to host a file either mainframe or network attached system.
- Features---
 - It support multiple sessions.
 - It support multiple tables.
 - It support the restartibilty.
 - Recommendation:
 - Fast export is the best choice if the volume of data more than half a million records.







Supporting Environment

- The Fast Export utility is supported either on either the mainframe or on network attached system(LAN).
- The LAN environment supports the following operating systems:
 - UNIX MP-RAS
 - Windows 2000
 - Windows 95
 - Windows NT
 - UNIX HP-UX
 - AIX
 - Solaris SPARC
 - Solaris Intel



Supporting Environment

- The Mainframe (Channel Attached) environment supports the following
- Operating Systems:
 - MVS
 - VM
- CAUTION: The Teradata RDBMS will only support a maximum of 15 simultaneous FastLoad, MultiLoad, or FastExport utility jobs



Execution Process

- Logon to Teradata for the utility Fast Export.
- BEGIN EXPORT
- Create utility logs into Teradata database.
- Retrieves records from Teradata Database and put them in to spool.
- Pass the records from SPOOL to work tables.
- Blocks are created and distributed into AMP.
- .END EXPORT
- Logoff Teradata Database



Start with .BEGIN EXPORT and .END EXPORT

BIEGIN EXPORT

SESSIONS

- Maximum... and optionally, minimum number of sessions the utility may use defaults to 4 for UNIX
 Fast Export.
- The utm ty wiH log on two additionall SQ[Lsessions: one for the Restart Log and one for the SELECT.

TENACITY

- Number of hours FastExport wi1ll try to establish a connection to the system; default is 4.

 SLEEP
- Number of minutes that FastExport will wait between Illogon attempts, default is 6.

NOTIFY

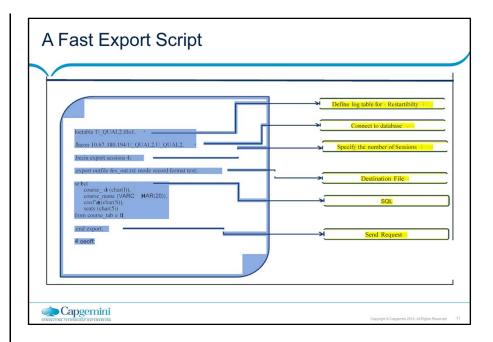
- Parameter for specifying the notify user exit option
- The fastExpoint manuallispedfiles in detailill which events are associated with each lievel | | |
 END EXPORT:
- DelirnIts a series of commands that define a single EXPORT action.
- Causes the utility to send the SIE EICT(s) to the Teradata Database.

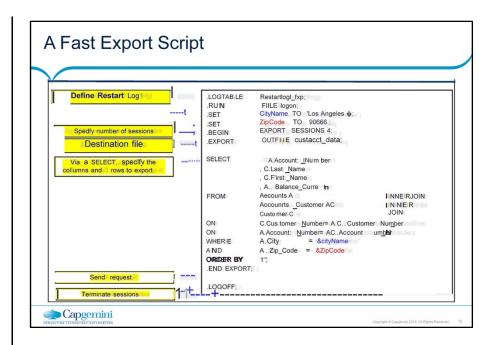


Copyright © Capgemini 2015. All Rights Reserved

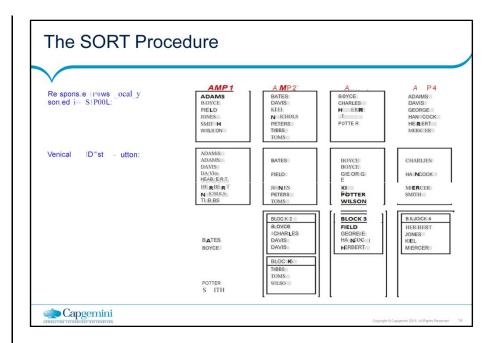
Page 05-9







Capgemini



Important Commands and meaning

BEGIN EXPORT Begins the export task and sets the specifications for the number of sessions with

END EXPORT Ends the export task and initiates processing by Teradata.

Provides, two things, which are.. The client destination and file format specifications for the export data retrieved from Teradata, A. generated Multi Load script file that EXPORT

can be used later to reload the export data back into Teradata Constitutes a field in the input record section that provides data values for the

FIE SELECT state t.

 Specifies a field in the input record that uvill not be sent to Teradata for processing.

It is part of the input record to provide data values for the SELECT statement. FIILLE

IMPORT Defines the file that provides the USING data values for the SELECT.

LAYOU Specifies the data layout for a file. It contains a sequence o FIELD and FILLER commands. This is used to describe the import file that can optionally provide data

values for the SELECT.



Key features of Fast Export

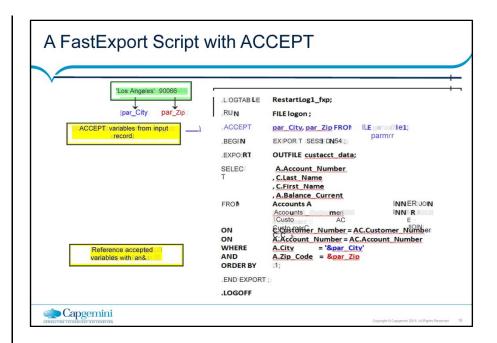
- Fast Export EXPORTS data from Teradata.
- Fast Export does not import data into Teradata , like BTEQ it can output
- multiple files in a single run.
- Fast Export only supports the SELECT statement.
- The only DML statement that Fast Export understands is SELECT.
- Choose Fast Export over BTEQ when Exporting Data of more than half a million+
- It is recommended use Fast export, if you have huge volume of data for exporting.

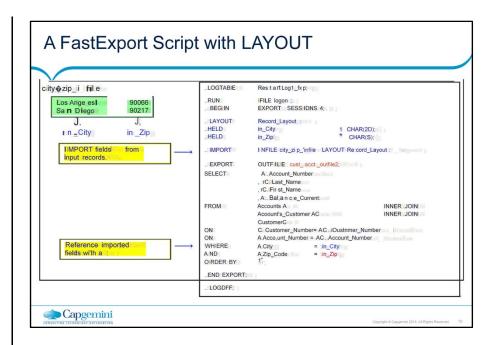


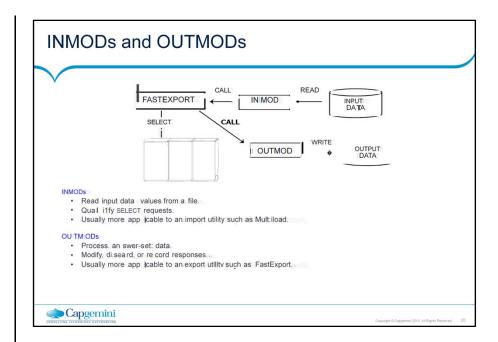
Key features of Fast Export

- Fast Export supports multiple SELECT statements and multiple tables in a single run.
- Fast Export supports multiple select and each select can use 64 tables.
- Fast Export supports conditional logic, conditional expressions, arithmetic calculations,
- data conversions.
- Fast Export does NOT support error files or error limits.









Application Utility Checklist BTEQ Fastl.oad Mulitil.o,ad TP'Ulm Feature Fastfixport LIMITED **IDOL Functions** DML Functions SELECT ALL NSERT Ye Yes Multip le DML No Yes Multip le Tables No Ye Yes Yes Mu Itiple Sessions Proto co Used **I**fASTLOAD **EXPORT** Ye Cond Itlonal Expressions Yes Yes No SQ Arithmetic Calculations No Yes Ye Data Conversion 1 per column Error [files Ye Error ILi mits No Yes INo User-written Routines No Yes Yes Capgemini

QUIZ

- 1.Which two statements are true about data integration utilities? (Choose two.)
 - A. BTEQ is limited to using one session.
 - B. FastExport is used to export large amounts of data.
 - C. BTEQ allows import/export across all supported platforms.
 - D. SQL Assistant supports report writing and formatting features.



• what is destination file

A).export outfile custacct_dataB).logtable restartLog1_fxp

C) onA.Account_number=AC.customer



QUIZ

- 3.which utility uses select feature
 - A)FastExport
 - B)Fastload
 - C)Bteq
 - D)Tpump





Summary

 Best choice for exporting large amounts of data from the Teradata database to a host file using multiple sessions.



- Fully automatic restart capability.
- Specialized processing of output data can be handled using an OUTMOD routine.
- Teradata accommodates not more than 15 'LOAD' applications at any one time (FastLoad, MultiLoad, FastExport).



Lab Exercises

- Lab Exercise 5-1 Purpose
- In this lab, you will use FastExport to create an export file that contains one record for each transaction. You will have to join columns from two different tables in order to create the export file.



- What you need
- Populated TD_BIM_FR_TRNG_DB.Accounts and TD_BIM_FR_TRNG_DB.Trans tables.



Lab Exercises

- Tasks
- 1. Create a FastExport script that outputs to file data5 1. For each transaction in the
- AU.Trans
- table, include the transaction_number, account_number, number, street, city, state and zip of the
- associated account (AU.Accounts).
- 2. Run the script.
- 3. Test the result by opening the data file..



