



# DB2 Version 8 Data Movement

DB2 Quickstart Education
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IBM Software Group

## **Presentation Notes**

- The following presentation should be delivered interactively with the students.
- Any slides with the QUICKLAB heading can be done by the students using the SAMPLE database.



### **Data Movement Tools**

- LOAD, IMPORT, EXPORT
  - ►IXF, DEL, ASC
- db2move easily export set of tables & data (IXF)
- db2look can extract
  - ► DDL
  - **▶** permissions
  - ▶ database statistics
  - ► tablespace characteristics

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QuickLab: EXPORT

Export data based on SQL Statement

EXPORT TO emp\_photo.ixf of IXF SELECT \* FROM emp\_photo

EXPORT TO employee.del of DEL SELECT firstnme, lastname FROM employee FETCH FIRST 10 ROWS ONLY

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#### OuickLab: IMPORT

- High-speed SQL INSERT
  - ► Activates triggers
  - ► All Constraints enforced immediately
  - ►Uses BUFFERPOOL

IMPORT FROM emp\_photo.ixf OF IXF
COMMITCOUNT 10
REPLACE\_CREATE
INTO emp\_photo\_copy

Very important for performance!

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## QuickLab: LOAD

- Very High Speed, low level data loader
  - ► separate LOAD, BUILD, DELETE phases
- Uses utility heap (UTIL\_HEAP\_SZ)
- Does NOT use bufferpool and does NOT activate triggers
- Constraints enforced as separate step, may define exception tables
- ONLINE LOAD SUPPORTED

LOAD FROM emp\_photo.ixf OF IXF REPLACE INTO emp\_photo\_copy

SET INTEGRITY FOR emp\_photo\_copy ALL IMMEDIATE UNCHECKED

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#### db2move

**EASY** way to move a set of tables and data (demo)

```
** DB2MOVE
** Please read the DB2 Administration Guide for more info!
** Usage: "db2move dbname action [options]"
** - Action: must be EXPORT, IMPORT, or LOAD.
** - Options: If not specified, defaults will be used.
        Option
                              Default
                                                     Notes
** ------
** -tc table-creators all creators EXPORT. Wildcard (*) allowed.

** -tn table-names all user tables EXPORT. Wildcard (*) allowed.

** -sn schema-names all schemas EXPORT. Wildcard (*) allowed.
                                               EXPORT. Wildcard (*) allowed.
EXPORT. Wildcard (*) allowed.
IMPORT only.
LOAD only.
** -1 lobpaths
                                                  separated by commas. NO BLANKS.
** -u userid logged on userid

** -p password logged on password

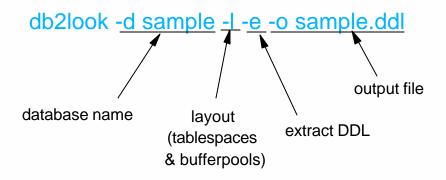
** -aw allow-warnings false
                            logged on password
                                                   include tables that encounter
                                                   warnings during export.
```

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### db2look

- Extract DDL, tablespace info, and statistics to script
- Too many options to describe, see db2look -h for details
- Example:



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