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# Setting Up and Using DFsqlload to Regularly Update Tables

Craig Dilks

DF/Net Software ULC

Hamilton Ontario, Canada



# DFsqlload

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- Released in May 2004 (part of DataFax 3.6)
- Provides a means to easily update and make available study data from a SQL database
- Last major revision was inclusion of Microsoft SQL Server

# What DFsqlload Does...

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- Creates relational tables (one table per plate) with names `dftable_###`
- Uses column names matching plate field names (if possible)
- Creates separate tables for coding, QCs, reasons, status of last update
- Benefit: study data can coexist with other relational tables

## ... And Doesn't Do

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- DFsqlload doesn't re-import any changes to data in the relational tables back to the DataFax environment
  - This is probably a good thing
- DFsqlload doesn't preserve changes you make to data in the relational tables
  - Updates correspond 1 to 1 with what's in DataFax at the time an update is made
- DFsqlload doesn't compromise compliance with 21 CFR Part11

# Usage

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- DFsqlload works best if it is configured to run regularly via a crontab entry for user datafax or for any user with permission to export data
- Password stored in ~/.pgpass

```
"0 1 * * * export
```

```
DATAFAX_DIR=/opt/datafax;/opt/datafax/bin/DFsqlload -flavor postgresql -table all -coding label horseshoe:StudyData:valtest154:postgres 154 &> /tmp/DFsqlload_cronjob.log"
```

# Usage (cont'd.)

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- DFsqlload can be run on demand from a report!
  - Shell script installed in the DataFax or study reports directory can be selected and run from iDataFax

```
#!/bin/sh
```

```
DATAFAX_DIR=/opt/datafax; export DATAFAX_DIR
```

```
DATAFAX_BIN=$DATAFAX_DIR/bin; export DATAFAX_BIN
```

```
STUDYNUM=$1
```

```
STUDYNAME=`$DATAFAX_BIN/DFgetparam.rpc -s $STUDYNUM
```

```
STUDY_NAME | tr -d " "`
```

```
# use study name as database name
```

```
$DATAFAX_BIN/DFsqlload -flavor postgresql -coding code -date typed \
```

```
-table all horseshoe:StudyData:$STUDYNAME:postgres $STUDYNUM
```

## Usage (cont'd.)

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- DFsqlload can also be run as a command line in a terminal window:

```
DFsqlload -flavor postgresql -coding code -date typed \  
-table all horseshoe:StudyData:$STUDYNAME:postgres \  
\$STUDYNUM
```

# Passwords

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- `~/.pgpass` contains the following:  
`host:port:database:username:password`
- MySQL, Oracle, MS SQLServer have their own syntax (see documentation for details)



# Conclusion

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- DEMO
- Questions

# Thank You

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[craig@datafax.com](mailto:craig@datafax.com)