



FINANCIAL RISK  
GROUP

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# Retrieving Data from DBMS

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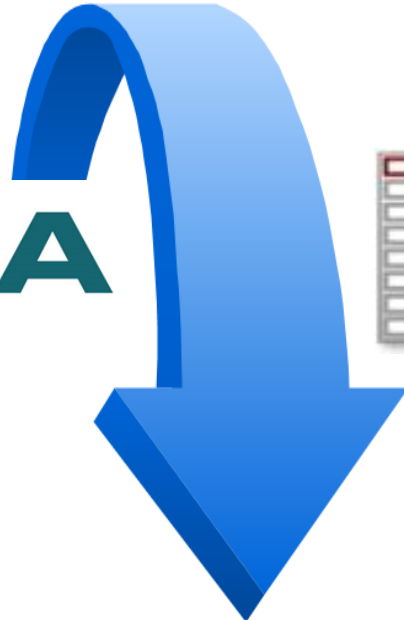
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# Objective

**NETEZZA**



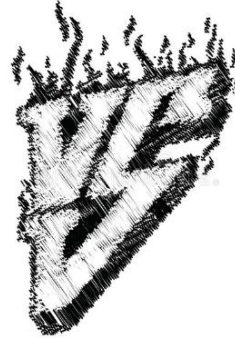
**Ssas**



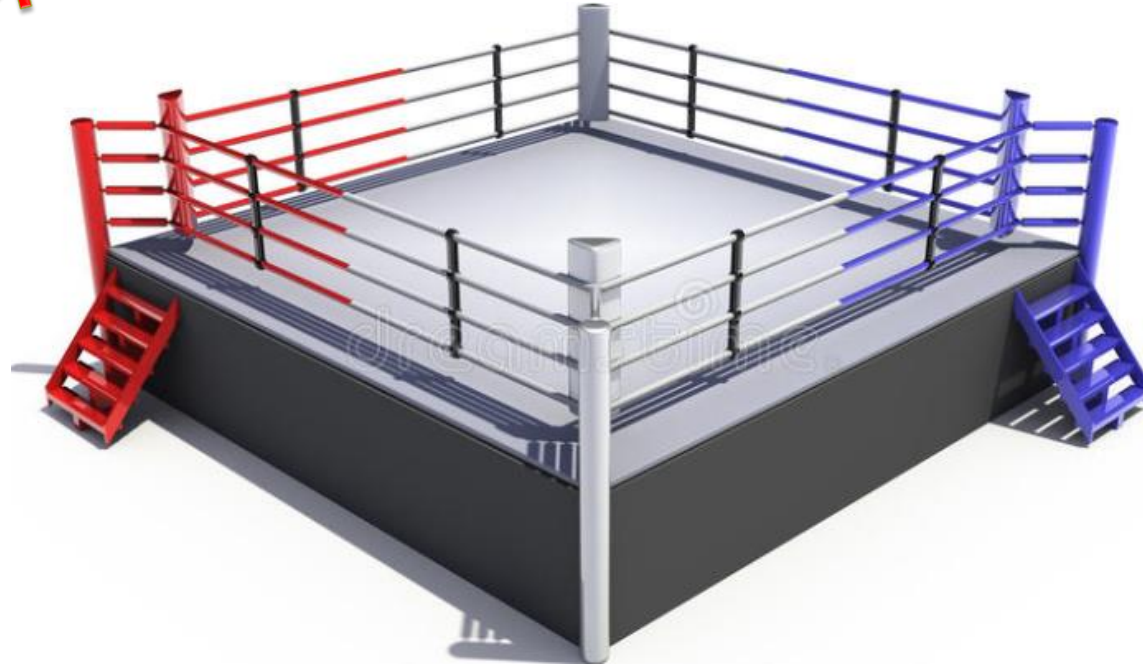


# Two competing methods

**SAS/ACCESS**  
**LIBNAME-statement**  
**Options**



**BULK-UNLOAD**  
**Data Set Options**





# SAS/ACCESS LIBNAME-statement Options

## **SYNTAX:**

**LIBNAME** *libref* **netezza** <connection-options> <LIBNAME-options>;  
...QUERY...

## **EXAMPLE:**

**LIBNAME** *mydblib* **netezza** **SERVER=xxx** **DATABASE=yyy** **AUTHDOMAIN=zzz**  
**BULKUNLOAD=YES;**

**PROC SQL;**

**CREATE TABLE** work.contender\_1 **AS**

**SELECT \***

**FROM** mydblib.test\_data

**QUIT;**





# BULK-UNLOAD Data Set Options

## **SYNTAX:**

```
LIBNAME libref netezza <connection-options>;  
...QUERY ( BULKUNLOAD= BL_USE_PIPE=  
           BL_DATAFILE= BL_DELETE_DATAFILE= )...
```

## **EXAMPLE:**

```
LIBNAME mydblib netezza SERVER=xxx DATABASE=yyy AUTHDOMAIN=zzz;
```

## **PROC SQL;**

```
CREATE TABLE work.contender_2 AS  
SELECT *  
FROM mydblib.test_data  
      (BULKUNLOAD=YES  
       BL_USE_PIPE=NO  
       BL_DATAFILE= 'file-path-and-name'  
       BL_DELETE_DATAFILE=NO)  
QUIT;
```



# Efficiency Comparison

Compare *real time* **only**, but mind other resource (*I/O and Memory Usage*)

**mydlib.test\_data** contains approximately one million observations and 200 variables

Version of Code	Real Time	I/O	Memory usage
<b>BENCHMARK (no bulk-unload)</b>	1:45.09	2,308,112	-
<b>CONTENDER 1 (libname options)</b>	55.93	2,307,728	-
<b>CONTENDER 2 (data set options)</b>	1:01.20	4,388,800	1.04 GB



# References



SAS Institute Inc. 2012. **SAS/ACCESS® 9.3 for Relational Databases: Reference, Second Edition.** Cary, NC: SAS Institute Inc.

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