DTGen Demonstration #1

Developed by DMSTEX (http://dmstex.com)

Table of Contents:

Table of Contents

Table of Contents:	. 1
ntroduction:	. 1
Exercise #1: Basic Generation	. 1
Exercise #2: Sequences and Surrogate Primary Keys	
Exercise #3: Indexed Foreign Keys and Natural Keys	.3
Exercise #4: Natural Key Updatable Views	.3
Exercise #5: Full Path Hierarchy Data	.3
Exercise #6: Enforced Descrete Domains.	
Exercise #7: Enforced Case Folding	.3
Exercise #8: Full Procedural APIs.	
Exercise #9: Custom Check Constraints	
	.3

Introduction:

The set of exercises in this demonstration is focused on basic DTGen functionality. All functionality in this demonstration is available through both command line and graphical user interface (GUI) forms. For simplicity in understanding the under-lying workings of DTGen, this demonstration is conducted entirely by command-line. (No GUIs will be injured during the execution of this demonstration.)

This demonstration directory contains several exercises. The exercises are numbered and must be executed in sequential order. The demo users must be created with the "create_demo_users.sql" script in the parent directory before the first exercise is run. The demo users must be dropped with the "drop_demo_users.sql" script before the "create_demo_users.sql" script can be re-used. The exercises also assume that the default username/password (dtgen/dtgen) is still in use for the generator. Names and passwords are set at the top of each script and can be modified, if necessary. Also, the DTGen database objects must be installed in the database and ready to generate code.

Exercise #1: Basic Generation

Command Line:

sqlplus /nolog @e1

Based on Oracle's demobld.sql script, this exercise implements the EMP and DEPT tables using DTGen. The script for this exercise performs the following functions:

- 1. Removes any old DEMO1 Items from DTGEN
- 2. Creates new DEMO1 Items in DTGEN
- 3. Generates the DEMO1 Application in DTGEN
- 4. Creates the "install db.sql" script
- 5. Runs the "install db.sql" script
- 6. Loads and Reports Data

Steps 1-3 are captured in the "e1.LST" file:

```
Login to dtgen
Connected.
Remove old DEMO Schema from DTGEN
create a DEMO Schema in DTGEN
Generate Demo1 Application
Capture install db.sql Script
```

Login to dtgen db demo

Step 4 is captured in the "install_db.sql" file. This file is 78,281 bytes and has 3,145 lines. It is not listed here

Steps 5 and 6 are captured in the "install.LST" file:

```
Connected.
TABLE NAME
*** dept ***
TABLE NAME
*** emp ***
TABLE_NAME
*** dept ***
TABLE NAME
-----
*** emp ***
TABLE NAME
*** dept ***
TABLE NAME
-----
*** emp ***
     DEPTNO DNAME
             10 ACCOUNTING NEW YORK
20 RESEARCH DALLAS
30 SALES CHICAGO
40 OPERATIONS BOSTON
                                                   JOB
                                                                        M_EMP_NK1 HIREDATE
                                                                                                                           SAL D DEPT NK1
        EMPNO ENAME
          7782 CLARK MANAGER 7839 09-JUN-81 2450 10
7698 BLAKE MANAGER 7839 01-MAY-81 2850 30
7566 JONES MANAGER 7839 02-APR-81 2975 20
7902 FORD ANALYST 7566 03-DEC-81 3000 20
7788 SCOTT ANALYST 7566 09-DEC-82 3000 20
7876 ADAMS CLERK 7788 12-JAN-83 1100 20
7369 SMITH CLERK 7902 17-DEC-80 800 20
7900 JAMES CLERK 7698 03-DEC-81 950 30
7844 TURNER SALESMAN 7698 08-SEP-81 1500 30
7654 MARTIN SALESMAN 7698 28-SEP-81 1250 30
7521 WARD SALESMAN 7698 22-FEB-81 1250 30
                                                   JOB M_EMP_NK1 HIREDATE
        EMPNO ENAME
                                                                                                                          SAL D DEPT NK1
```

 7499 ALLEN
 SALESMAN
 7698 20-FEB-81
 1600
 30

 7934 MILLER
 CLERK
 7782 23-JAN-82
 1300
 10

 7839 KING
 PRESIDENT
 17-NOV-81
 5000
 10

Exercise #2: Sequences and Surrogate Primary Keys

Exercise #3: Indexed Foreign Keys and Natural Keys

Exercise #4: Natural Key Updatable Views

Exercise #5: Full Path Hierarchy Data

Exercise #6: Enforced Descrete Domains

Exercise #7: Enforced Case Folding

Exercise #8: Full Procedural APIs

Exercise #9: Custom Check Constraints