



examples/simple_tables.pql

by *Pequel*

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Simple Tables Example Script

2.2

Table of Contents

Simple Tables Example Script

SCRIPT NAME	1
DESCRIPTION	1
1. PROCESS DETAILS	1
1.1 LOCATION	1
Description	1
1.2 CITY_NAME	1
Description	1
Derived Input Field Evaluation	1
1.3 STATE_NAME	1
Description	1
Derived Input Field Evaluation	1
1.4 STATE_NAME_UC	1
Description	1
Derived Input Field Evaluation	1
1.5 STATE_CODE	1
Description	1
Derived Input Field Evaluation	2
1.6 STATE_NAME_3	2
Description	2
Derived Input Field Evaluation	2
2. CONFIGURATION SETTINGS	3
2.1 prefix	3
2.2 pequeldoc	3
2.3 detail	3
2.4 script_name	3
2.5 header	3
2.6 optimize	3
2.7 discard_header	3
2.8 doc_title	3
2.9 doc_email	3
2.10 doc_version	3
3. TABLES	4
3.1 TCITY	4
Data	4
3.2 TSTATE	4
Data	4
4. TABLE INFORMATION SUMMARY	5
4.1 Table List Sorted By Table Name	5
5. EXAMPLES/SIMPLE_TABLES.PQL	6
options	6
description	6
init table	6
input section	6
output section	6
6. PEQUEL GENERATED PROGRAM	7
7. ABOUT PEQUEL	9
COPYRIGHT	9

SCRIPT NAME

examples/simple_tables.pql

DESCRIPTION

Demonstrates the use of tables.

1. PROCESS DETAILS

Input records are read from standard input. The input record contains **8** fields. Fields are delimited by the '|' character.

Output records are written to standard output. The output record contains **6** fields. Fields are delimited by the '|' character.

1.1 LOCATION

Output Field

Description

Set to input field **LOCATION**

1.2 CITY_NAME

Output Field

Description

Set to input field **CITY_NAME**

Derived Input Field Evaluation

```
=> %TCITY(LOCATION)->1
```

1.3 STATE_NAME

Output Field

Description

Set to input field **STATE_NAME**

Derived Input Field Evaluation

```
=> %TSTATE(%TCITY(LOCATION)->2)->1 || %TSTATE(LOCATION)->1
```

1.4 STATE_NAME_UC

Output Field

Description

Set to input field **STATE_NAME_UC**

Derived Input Field Evaluation

```
=> &uc(%TSTATE(&uc(%TCITY(&uc(LOCATION))->2))->1 || %TSTATE(LOCATION)->1)
```

1.5 STATE_CODE

Output Field

Description

Set to input field **STATE_CODE**

Derived Input Field Evaluation

```
=> %TCITY(&uc(LOCATION))->2 || LOCATION
```

1.6 STATE_NAME_3

Output Field

DescriptionSet to input field **STATE_NAME_3*****Derived Input Field Evaluation***

```
=> %TSTATE(STATE_CODE)->1
```

2. CONFIGURATION SETTINGS

2.1 *prefix*

directory pathname prefix.: examples

2.2 *pequeldoc*

generate pod / pdf pequel script Reference Guide.: pdf

2.3 *detail*

Include Pequel Generated Program chapter in Pequeldoc: 1

2.4 *script_name*

script filename: examples/simple_tables.pql

2.5 *header*

write header record to output.: 1

2.6 *optimize*

optimize generated code.: 1

2.7 *discard_header*

Input file has header record - must be discarded.: 1

2.8 *doc_title*

document title.: Simple Tables Example Script

2.9 *doc_email*

document email entry.: sample@youraddress.com

2.10 *doc_version*

document version for pequel script.: 2.2

3. TABLES

3.1 *TCITY*

Table Type: *local*

Data

SYD — Sydney NSW

MEL — Melbourne VIC

PER — Perth WA

ALIC — Alice Springs NT

3.2 *TSTATE*

Table Type: *local*

Data

WA — Western Australia

NSW — New South Wales

SA — South Australia

QLD — Queensland

NT — Northern Territory

VIC — Victoria

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

TCITY — **1** (*local*)

TSTATE — **2** (*local*)

5. EXAMPLES/SIMPLE_TABLES.PQL

options

```

prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/simple_tables.pql)
header(1)
optimize(1)
discard_header(1)
doc_title(Simple Tables Example Script)
doc_email(sample@youraddress.com)
doc_version(2.2)

```

description

Demonstrates the use of tables.

init table

```

TCITY SYD Sydney NSW
TCITY MEL Melbourne VIC
TCITY PER Perth WA
TCITY ALIC Alice Springs NT

TSTATE WA Western Australia
TSTATE NSW New South Wales
TSTATE SA South Australia
TSTATE QLD Queensland
TSTATE NT Northern Territory
TSTATE VIC Victoria

```

input section

```

PRODUCT_CODE
COST_PRICE
DESCRIPTION
SALES_CODE
SALES_PRICE
SALES_QTY
SALES_DATE
LOCATION
CITY_NAME => %TCITY(LOCATION)->1

STATE_NAME => %TSTATE(%TCITY(LOCATION)->2)->1 || %TSTATE(LOCATION)->1

STATE_NAME_UC => &uc(%TSTATE(&uc(%TCITY(&uc(LOCATION))->2))->1 || %TSTATE(LOCATION)->1)

STATE_CODE => %TCITY(&uc(LOCATION))->2 || LOCATION

STATE_NAME_3 => %TSTATE(STATE_CODE)->1

```

output section

```

string    LOCATION      LOCATION
string    CITY_NAME     CITY_NAME
string    STATE_NAME     STATE_NAME
string    STATE_NAME_UC  STATE_NAME_UC
string    STATE_CODE     STATE_CODE
string    STATE_NAME_3   STATE_NAME_3

```

6. PEQUEL GENERATED PROGRAM

```
#!/usr/bin/perl
#-----
# vim: syntax=perl ts=4 sw=4
#-----
#Generated By: pequel Version 2.4-5, Build: Wednesday November 16 21:56:42 GMT 2005
#           : http://sourceforge.net/projects/pequel/
#Script Name : simple_tables.pql
#Created On  : Wed Nov 16 14:20:19 2005
#Perl Version: /usr/bin/perl 5.6.1 on solaris
#For         :
#-----
#Options:
#prefix(examples) directory pathname prefix.
#pequeldoc(pdf) generate pod / pdf pequel script Reference Guide.
#detail(1) Include Pequel Generated Program chapter in Pequeldoc
#script_name(examples/simple_tables.pql) script filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
#discard_header(1) Input file has header record - must be discarded.
#doc_title(Simple Tables Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
#doc_version(2.2) document version for pequel script.
#-----
use strict;
use constant _I_PRODUCT_CODE      => int    0;
use constant _I_COST_PRICE        => int    1;
use constant _I_DESCRIPTION       => int    2;
use constant _I_SALES_CODE        => int    3;
use constant _I_SALES_PRICE       => int    4;
use constant _I_SALES_QTY         => int    5;
use constant _I_SALES_DATE        => int    6;
use constant _I_LOCATION          => int    7;
use constant _I_CITY_NAME         => int    8;
use constant _I_STATE_NAME        => int    9;
use constant _I_STATE_NAME_UC     => int   10;
use constant _I_STATE_CODE        => int   11;
use constant _I_STATE_NAME_3      => int   12;
use constant _O_LOCATION          => int    1;
use constant _O_CITY_NAME         => int    2;
use constant _O_STATE_NAME        => int    3;
use constant _O_STATE_NAME_UC     => int    4;
use constant _O_STATE_CODE        => int    5;
use constant _O_STATE_NAME_3      => int    6;
use constant _T_TCITY_FLD_1       => int    0;
use constant _T_TCITY_FLD_2       => int    1;
use constant _T_TSTATE_FLD_1      => int    0;
use constant _I_TCITY_LOCATION_FLD_KEY => int  13;
use constant _I_TCITY_LOCATION_FLD_1 => int  14;
use constant _I_TCITY_LOCATION_FLD_2 => int  15;
use constant _I_TCITY_1_FLD_KEY   => int  16;
use constant _I_TCITY_1_FLD_1     => int  17;
use constant _I_TCITY_1_FLD_2     => int  18;
use constant _I_TSTATE_1_FLD_KEY  => int  19;
use constant _I_TSTATE_1_FLD_1    => int  20;
use constant _I_TSTATE_LOCATION_FLD_KEY => int  21;
use constant _I_TSTATE_LOCATION_FLD_1 => int  22;
use constant _I_TSTATE_2_FLD_KEY  => int  23;
use constant _I_TSTATE_2_FLD_1    => int  24;
use constant _I_TSTATE_STATE_CODE_FLD_KEY => int  25;
use constant _I_TSTATE_STATE_CODE_FLD_1 => int  26;
local $="\n";
local $,="|";
print STDERR "[examples/simple_tables.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 12;
my @I_VAL;
my @O_VAL;
my $_inprec=0;
foreach my $f (1..6) { $_VAL[$f] = undef; }
my $_TABLE_TCITY = &InitLookupTCITY; # ref to %TCITY hash
my $_TABLE_TSTATE = &InitLookupTSTATE; # ref to %TSTATE hash
&PrintHeader();
print STDERR "[examples/simple_tables.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
my $discard_header = <STDIN>;
while (<STDIN>)
{
    ++$_inprec;
    print STDERR "[examples/simple_tables.pql ' . localtime() . "] $_inprec records." if ($_inprec % VERBOSE
```

```

== 0);
chomp;
@I_VAL = split("[|]", $_);
$O_VAL[_O_LOCATION] = $I_VAL[_I_LOCATION];
$I_VAL[_I_CITY_NAME] = ${$_TABLE_TCITY{qq{$I_VAL[_I_LOCATION]}}][_T_CITY_FLD_1];
$O_VAL[_O_CITY_NAME] = $I_VAL[_I_CITY_NAME];
$I_VAL[_I_STATE_NAME] = $_TABLE_TSTATE{qq{@{[ ${$_TABLE_TCITY{qq{$I_VAL[_I_LOCATION]}}][_T_CITY_FLD_2]
}}}} || $_TABLE_TSTATE{qq{$I_VAL[_I_LOCATION]}}};
$O_VAL[_O_STATE_NAME] = $I_VAL[_I_STATE_NAME];
$I_VAL[_I_STATE_NAME_UC] = uc($_TABLE_TSTATE{qq{@{[ uc($_TABLE_TCITY{qq{@{[ uc($I_VAL[_I_LOCATION]) ]}}
}}][_T_CITY_FLD_2]) ]}} || $_TABLE_TSTATE{qq{$I_VAL[_I_LOCATION]}}});
$O_VAL[_O_STATE_NAME_UC] = $I_VAL[_I_STATE_NAME_UC];
$I_VAL[_I_STATE_CODE] = ${$_TABLE_TCITY{qq{@{[ uc($I_VAL[_I_LOCATION]) ]}}}}[_T_CITY_FLD_2] || $I_VAL[_I
_LOCATION];
$O_VAL[_O_STATE_CODE] = $I_VAL[_I_STATE_CODE];
$I_VAL[_I_STATE_NAME_3] = $_TABLE_TSTATE{qq{$I_VAL[_I_STATE_CODE]}}};
$O_VAL[_O_STATE_NAME_3] = $I_VAL[_I_STATE_NAME_3];
print STDOUT
    $O_VAL[_O_LOCATION],
    $O_VAL[_O_CITY_NAME],
    $O_VAL[_O_STATE_NAME],
    $O_VAL[_O_STATE_NAME_UC],
    $O_VAL[_O_STATE_CODE],
    $O_VAL[_O_STATE_NAME_3]
;
}

close(STDIN);
print STDERR '[examples/simple_tables.pql ' . localtime() . "] $_inprecs records.";
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/simple_tables.pql ' . localtime() . "] Code statistics: @{{timestr($benchmark_timediff
)}}";
#-----
#++++++ Table TCITY --> Type :ETL::Pequel::Type::Table::Local ++++++
sub InitLookupTCITY
{
    my $_TABLE_TCITY;
    $_TABLE_TCITY =
    (
        'ALIC' => ['Alice Springs', 'NT'],
        'MEL'  => ['Melbourne', 'VIC'],
        'PER'  => ['Perth', 'WA'],
        'SYD'  => ['Sydney', 'NSW']
    );
    return \$_TABLE_TCITY;
}

#++++++ Table TSTATE --> Type :ETL::Pequel::Type::Table::Local ++++++
sub InitLookupTSTATE
{
    my $_TABLE_TSTATE;
    $_TABLE_TSTATE =
    (
        'NSW' => 'New South Wales',
        'NT'  => 'Northern Territory',
        'QLD' => 'Queensland',
        'SA'  => 'South Australia',
        'VIC' => 'Victoria',
        'WA'  => 'Western Australia'
    );
    return \$_TABLE_TSTATE;
}

sub PrintHeader
{
    local $\\="\\n";
    local $,="|";
    print STDOUT
        'LOCATION',
        'CITY_NAME',
        'STATE_NAME',
        'STATE_NAME_UC',
        'STATE_CODE',
        'STATE_NAME_3'
    ;
}

```

7. ABOUT PEQUEL

This document was generated by Pequel.

<https://sourceforge.net/projects/pequel/>

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