



examples/macro_pack.pql

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Macro Pack and Unpack Example Script

2.3

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SCRIPT NAME

examples/macro_pack.pql

DESCRIPTION

Demonstrates the use of &pack and &unpack macros. These macros require a format first argument. Please refer to the perlpacktut document (on Perl.Org) for a full description of formats. The &unpack() macro will produce an array field.

1. PROCESS DETAILS

Input records are read from standard input. The input record contains **9** fields. Fields are delimited by the '|' character.

Output records are written to standard output. The output record contains **5** fields. Fields are delimited by the '|' character.

1.1 *location*

Output Field

Description

Set to input field *location*

1.2 *product_code*

Output Field

Description

Set to input field *product_code*

1.3 *salesman_list*

Output Field

Description

Set to input field *salesman_list*

1.4 *p_salesman_list*

Output Field

Description

Set to input field *p_salesman_list*

Derived Input Field Evaluation

```
=> &pack('A3/Z*' x &arr_size(salesman_list),&to_array(salesman_list))
```

1.5 *up_salesman_list*

Output Field

Description

Set to input field *up_salesman_list*

Derived Input Field Evaluation

```
=> &unpack('A3/Z*' x &arr_size(salesman_list),p_salesman_list)
```

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/macro_pack.pql

2.5 *header*

write header record to output.: 1

2.6 *optimize*

optimize generated code.: 1

2.7 *nulls*

print zero for null numeric/decimal.: 1

2.8 *doc_title*

document title.: Macro Pack and Unpack Example Script

2.9 *doc_email*

document email entry.: sample@youraddress.com

2.10 *doc_version*

document version for pequel script.: 2.3

3. TABLES

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

5. EXAMPLES/MACRO_PACK.PQL

options

```

prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/macro_pack.pql)
header(1)
optimize(1)
nulls(1)
doc_title(Macro Pack and Unpack Example Script)
doc_email(sample@youraddress.com)
doc_version(2.3)

```

description

Demonstrates the use of &pack and &unpack macros. These macros require a format first argument. Please refer to the perlpacktut document (on Perl.Org) for a full description of formats. The &unpack() macro will produce an array field.

input section

```

product_code
cost_price
description
sales_code
sales_price
sales_qty
sales_date
location
salesman_list
p_salesman_list => &pack('A3/Z*' x &arr_size(salesman_list),&to_array(salesman_list))

up_salesman_list => &unpack('A3/Z*' x &arr_size(salesman_list),p_salesman_list)

```

output section

string	location	location
string	product_code	product_code
string	salesman_list	salesman_list
string	p_salesman_list	p_salesman_list
string	up_salesman_list	up_salesman_list

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 : macro_pack.pql
#Created On  : Wed Nov 16 14:07:03 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/macro_pack.pql) script filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
#nulls(1) print zero for null numeric/decimal.
#doc_title(Macro Pack and Unpack Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
#doc_version(2.3) 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_salesman_list     => int    8;
use constant _I_p_salesman_list   => int    9;
use constant _I_up_salesman_list  => int   10;
use constant _O_location          => int    1;
use constant _O_product_code      => int    2;
use constant _O_salesman_list     => int    3;
use constant _O_p_salesman_list   => int    4;
use constant _O_up_salesman_list  => int    5;
local $\\="\n";
local $,="|";
print STDERR "[examples/macro_pack.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 10;
my @I_VAL;
my @O_VAL;
my $_inprec=0;
foreach my $f (1..5) { $_O_VAL[$f] = undef; }
&PrintHeader();
print STDERR "[examples/macro_pack.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
while (<STDIN>)
{
    ++$_inprec;
    print STDERR "[examples/macro_pack.pql ' . localtime() . "] $_inprec records." if ($_inprec % VERBOSE ==
0);
    chomp;
    @I_VAL = split("[|]", $_);
    $_O_VAL[_O_location] = $_I_VAL[_I_location];
    $_O_VAL[_O_product_code] = $_I_VAL[_I_product_code];
    $_O_VAL[_O_salesman_list] = $_I_VAL[_I_salesman_list];
    $_I_VAL[_I_p_salesman_list] = pack('A3/Z*' x int(split(/\s*,\s*/, $_I_VAL[_I_salesman_list], -1)), split(/\s*,
\s*/, $_I_VAL[_I_salesman_list], -1));
    $_O_VAL[_O_p_salesman_list] = $_I_VAL[_I_p_salesman_list];
    $_I_VAL[_I_up_salesman_list] = join(',', unpack('A3/Z*' x int(split(/\s*,\s*/, $_I_VAL[_I_salesman_list], -1))
, $_I_VAL[_I_p_salesman_list]));
    $_O_VAL[_O_up_salesman_list] = $_I_VAL[_I_up_salesman_list];
    print STDOUT
        $_O_VAL[_O_location],
        $_O_VAL[_O_product_code],
        $_O_VAL[_O_salesman_list],
        $_O_VAL[_O_p_salesman_list],
        $_O_VAL[_O_up_salesman_list]
    ;
}

close(STDIN);
print STDERR "[examples/macro_pack.pql ' . localtime() . "] $_inprec records.";
```

```
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/macro_pack.pql ' . localtime() . "] Code statistics: @{" . timestr($benchmark_timediff) . "}"
";
#-----
sub PrintHeader
{
    local $\\ = "\n";
    local $, = "|";
    print STDOUT
        'location',
        'product_code',
        'salesman_list',
        'p_salesman_list',
        'up_salesman_list'
        ;
}
```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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