



examples/messages.pql

by *Pequel*

sample@youraddress.com

Message Sections Example Script

2.3

Table of Contents

Message Sections Example Script

SCRIPT NAME	1
DESCRIPTION	1
1. PROCESS DETAILS	1
1.1 location	1
Description	1
1.2 num_products	1
Description	1
2. CONFIGURATION SETTINGS	2
2.1 prefix	2
2.2 pequeldoc	2
2.3 detail	2
2.4 script_name	2
2.5 header	2
2.6 optimize	2
2.7 nulls	2
2.8 doc_title	2
2.9 doc_email	2
2.10 doc_version	2
3. TABLES	3
4. TABLE INFORMATION SUMMARY	4
4.1 Table List Sorted By Table Name	4
5. EXAMPLES/MESSAGES.PQL	5
options	5
description	5
input section	5
sort by	5
group by	5
output section	5
6. PEQUEL GENERATED PROGRAM	6
7. ABOUT PEQUEL	8
COPYRIGHT	8

SCRIPT NAME

examples/messages.pql

DESCRIPTION

Demonstrates the use of display-message section types. Each of these sections will display the message contained in the section argument if any of the condition items match the current record. The 'abort' version will cause Pequel to abort the processing after the message has been displayed. Messages are displayed to the standard error (STDERR) output. Message text can contain input and output field names which will be interpolated with their value unless the field name is enclosed within quotes.

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 **2** fields. Fields are delimited by the '|' character.

Input stream is **sorted** by the input field **location** (*string*).

Input records are **grouped** by the input field **location** (*string*).

1.1 **location**

Output Field

Description

Set to input field **location**

1.2 **num_products**

Output Field

Description

Distinct aggregation on input field **product_code**.

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/messages.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.: Message Sections 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/MESSAGES.PQL

options

```
prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/messages.pql)
header(1)
optimize(1)
nulls(1)
doc_title(Message Sections Example Script)
doc_email(sample@youraddress.com)
doc_version(2.3)
```

description

Demonstrates the use of display-message section types. Each of these sections will display the message contained in the section argument if any of the condition items match the current record. The 'abort' version will cause Pequel to abort the processing after the message has been displayed. Messages are displayed to the standard error (STDERR) output. Message text can contain input and output field names which will be interpolated with their value unless the field name is enclosed within quotes.

input section

```
product_code
cost_price
description
sales_code
sales_price
sales_qty
sales_date
location
salesman_list
```

sort by

```
location string
```

group by

```
location string
```

output section

```
string    location    location
string    num_products distinct product_code
```

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 : messages.pql
#Created On  : Wed Nov 16 14:10:14 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/messages.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(Message Sections 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 _O_location        => int    1;
use constant _O_num_products    => int    2;
local $\\="\n";
local $,="|";
print STDERR '[examples/messages.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 8;
my @I_VAL;
my @O_VAL;
my $_inprec=0;
my %DISTINCT;
my $key__I_location;
my $previous_key__I_location = undef;
foreach my $f (1..2) { $O_VAL[$f] = undef; }
# Sort:location(asc:string)
open(DATA, q{cat - | sort -t'|' -y -k 8,8 2>/dev/null |}) || die "Cannot open input: $!";
&PrintHeader();
print STDERR '[examples/messages.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
while (<DATA>)
{
    ++$_inprec;
    print STDERR '[examples/messages.pql ' . localtime() . "] $_inprec records." if ($_inprec % VERBOSE == 0);
    chomp;
    @I_VAL = split("[|]", $_);
    if (( $I_VAL[_I_product_code] =~ /^A111/) || ($I_VAL[_I_product_code] =~ /^X111/ ))
    {
        print STDERR "Product code: $I_VAL[_I_product_code]";
        print STDERR "Process aborted at record " . int(.);
        last;
    }

    $key__I_location = $I_VAL[_I_location];
    if (!defined($previous_key__I_location))
    {
        $previous_key__I_location = $key__I_location;
    }

    elsif ($previous_key__I_location ne $key__I_location)
    {
        print STDOUT
            $O_VAL[_O_location],
            $O_VAL[_O_num_products]
        ;
        if (( $O_VAL[_O_num_products] < 15 ))

```

```

        {
            print STDERR "Location $O_VAL[_O_location] contains less than 15 products: $O_VAL[_O_num_products]
        .";
        }

        $previous_key__I_location = $key__I_location;
        @O_VAL = undef;
        %DISTINCT = undef;
    }

    $O_VAL[_O_location] = $I_VAL[_I_location];
    $O_VAL[_O_num_products]++;
    if (defined($I_VAL[_I_product_code]) && ++$DISTINCT{_O_num_products}{qq{$I_VAL[_I_product_code]}} == 1
);
}

print STDOUT
    $O_VAL[_O_location],
    $O_VAL[_O_num_products]
;
if (( $O_VAL[_O_num_products] < 15 ))
{
    print STDERR "Location $O_VAL[_O_location] contains less than 15 products: $O_VAL[_O_num_products].";
}

close(DATA);
print STDERR '[examples/messages.pql ' . localtime() . "] $_inprec records.";
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/messages.pql ' . localtime() . "] Code statistics: @{{timestr($benchmark_timediff)}}";
#-----
sub PrintHeader
{
    local $\\="\n";
    local $,="|";
    print STDOUT
        'location',
        'num_products'
        ;
}

```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

COPYRIGHT

Copyright ©1999-2005, Mario Gaffiero. All Rights Reserved.

'Pequel' TM Copyright ©1999-2005, Mario Gaffiero. All Rights Reserved.

This program and all its component contents is copyrighted free software by Mario Gaffiero and is released under the GNU General Public License (GPL), Version 2, a copy of which may be found at <http://www.opensource.org/licenses/gpl-license.html>

Pequel is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

Pequel is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with Pequel; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

