



examples/chain_pequel_pt1.pql

by *Pequel*

sample@youraddress.com

Pequel Chaining Part-1 Example Script

2.3

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SCRIPT NAME

examples/chain_pequel_pt1.pql

DESCRIPTION

This example demonstrates Pequel script 'chaining'. By specifying a pequel script name for the 'input_file' option the input data stream will result by executing the specified script.

1. PROCESS DETAILS

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

Output records are written to standard output. The output record contains **3** fields. Fields are delimited by the '|' character.

Input stream is **sorted** by the input fields **LOCATION** (*string*) and **PRODUCT_CODE** (*string*).

Input records are **grouped** by the input fields **LOCATION** (*string*) and **PRODUCT_CODE** (*string*).

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 SALES_TOTAL

Output Field

Description

Sum aggregation on input field **SALES_TOTAL**.

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/chain_pequel_pt1.pql

2.5 *input_file*

input data filename: sample.data

2.6 *optimize*

optimize generated code.: 1

2.7 *doc_title*

document title.: Pequel Chaining Part-1 Example Script

2.8 *doc_email*

document email entry.: sample@youraddress.com

2.9 *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/CHAIN_PEQUEL_PT1.PQL

options

```
prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/chain_pequel_pt1.pql)
input_file(sample.data)
optimize(1)
doc_title(Pequel Chaining Part-1 Example Script)
doc_email(sample@youraddress.com)
doc_version(2.3)
```

description

This example demonstrates Pequel script 'chaining'. By specifying a pequel script name for the 'input_file' option the input data stream will result by executing the specified script.

input section

```
PRODUCT_CODE
COST_PRICE
DESCRIPTION
SALES_CODE
SALES_PRICE
SALES_QTY
SALES_DATE
LOCATION
SALES_TOTAL => SALES_QTY * SALES_PRICE
```

sort by

```
LOCATION string
PRODUCT_CODE string
```

group by

```
LOCATION string
PRODUCT_CODE string
```

output section

```
string    LOCATION    LOCATION
string    PRODUCT_CODE PRODUCT_CODE
decimal   SALES_TOTAL sum SALES_TOTAL
```

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 : chain_pequel_pt1.pql
#Created On  : Wed Nov 16 13:54:23 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/chain_pequel_pt1.pql) script filename
#input_file(sample.data) input data filename
#optimize(1) optimize generated code.
#doc_title(Pequel Chaining Part-1 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_SALES_TOTAL     => int    8;
use constant _O_LOCATION        => int    1;
use constant _O_PRODUCT_CODE    => int    2;
use constant _O_SALES_TOTAL     => int    3;
local $\\="\n";
local $,="|";
print STDERR "[examples/chain_pequel_pt1.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 8;
my @I_VAL;
my @O_VAL;
my $_inprec=0;
my $key__I_LOCATION;
my $previous_key__I_LOCATION = undef;
my $key__I_PRODUCT_CODE;
my $previous_key__I_PRODUCT_CODE = undef;
foreach my $f (1..3) { $O_VAL[$f] = undef; }
# Sort:LOCATION(asc:string) PRODUCT_CODE(asc:string)
open(DATA, q{sort -t'|' -y -k 8,8 -k 1,1 examples/sample.data 2>/dev/null |});
print STDERR "[examples/chain_pequel_pt1.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
while (<DATA>)
{
    ++$_inprec;
    print STDERR "[examples/chain_pequel_pt1.pql ' . localtime() . "] $_inprec records." if ($_inprec % VERB
OSE == 0);
    chomp;
    @I_VAL = split("[|]", $_);
    $key__I_LOCATION = $I_VAL[_I_LOCATION];
    $key__I_PRODUCT_CODE = $I_VAL[_I_PRODUCT_CODE];
    if (!defined($previous_key__I_LOCATION) || !defined($previous_key__I_PRODUCT_CODE))
    {
        $previous_key__I_LOCATION = $key__I_LOCATION;
        $previous_key__I_PRODUCT_CODE = $key__I_PRODUCT_CODE;
    }

    elsif ($previous_key__I_LOCATION ne $key__I_LOCATION || $previous_key__I_PRODUCT_CODE ne $key__I_PRODUCT_C
ODE)
    {
        print STDOUT
            $O_VAL[_O_LOCATION],
            $O_VAL[_O_PRODUCT_CODE],
            $O_VAL[_O_SALES_TOTAL]
        ;
        $previous_key__I_LOCATION = $key__I_LOCATION;
        $previous_key__I_PRODUCT_CODE = $key__I_PRODUCT_CODE;
        @O_VAL = undef;
    }
}
```

```
$O_VAL[_O_LOCATION] = $I_VAL[_I_LOCATION];
$O_VAL[_O_PRODUCT_CODE] = $I_VAL[_I_PRODUCT_CODE];
$I_VAL[_I_SALES_TOTAL] = $I_VAL[_I_SALES_QTY] * $I_VAL[_I_SALES_PRICE];
$O_VAL[_O_SALES_TOTAL] += $I_VAL[_I_SALES_TOTAL] unless ($I_VAL[_I_SALES_TOTAL] eq '');
}

print STDOUT
    $O_VAL[_O_LOCATION],
    $O_VAL[_O_PRODUCT_CODE],
    $O_VAL[_O_SALES_TOTAL]
;
close(DATA);
print STDERR '[examples/chain_pequel_pt1.pql ' . localtime() . "] $_inprec records.";
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/chain_pequel_pt1.pql ' . localtime() . "] Code statistics: @ {[timestr($benchmark_timediff)]}";
#-+-+-+-----
```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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