



examples/top_prod_by_loc.pql by *Pequel*

sample@youraddress.com

Pequel Table Example Script

2.3

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SCRIPT NAME

examples/top_prod_by_loc.pql

DESCRIPTION

This script demonstrates the use of pequel tables. This script will be called by another Pequel script to load the table data via the 'load pequel table' section. The important thing here is to specify the 'input_file' option.

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

1.1 LOCATION

Output Field

Description

Set to input field **LOCATION**

1.3 PRODUCT_CODE

Output Field

Description

First aggregation on input field **PRODUCT_CODE**.

Aggregation condition

`sprintf("%.2f",SALES_TOTAL) eq sprintf("%.2f",_MAXSALES);`

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/top_prod_by_loc.pql

2.5 *input_file*

input data filename: sample.data

2.6 *header*

write header record to output.: 1

2.7 *optimize*

optimize generated code.: 1

2.8 *hash*

Generate in memory. Input data can be unsorted.: 1

2.9 *doc_title*

document title.: Pequel Table Example Script

2.10 *doc_email*

document email entry.: sample@youraddress.com

2.11 *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/TOP_PROD_BY_LOC.PQL

options

```
prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/top_prod_by_loc.pql)
input_file(sample.data)
header(1)
optimize(1)
hash(1)
doc_title(Pequel Table Example Script)
doc_email(sample@youraddress.com)
doc_version(2.3)
```

description

This script demonstrates the use of pequel tables. This script will be called by another Pequel script to load the table data via the 'load pequel table' section. The important thing here is to specify the 'input_file' option.

input section

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

group by

```
LOCATION string
```

output section

```
string    LOCATION    LOCATION
decimal   _MAXSALES    max SALES_TOTAL
string    PRODUCT_CODE first PRODUCT_CODE where sprintf("%.2f",SALES_TOTAL) eq sprintf("%.2f",_MAXSALES)
```

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 : top_prod_by_loc.pql
#Created On  : Wed Nov 16 14:21:42 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/top_prod_by_loc.pql) script filename
#input_file(sample.data) input data filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
#hash(1) Generate in memory. Input data can be unsorted.
#doc_title(Pequel Table 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_MAXSALES        => int    2;
use constant _O_PRODUCT_CODE    => int    3;
local $\\="\\n";
local $,="|";
print STDERR "[examples/top_prod_by_loc.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 8;
my @I_VAL;
my %O_VAL;
my $key;
my $_inprec=0;
open(DATA, q{examples/sample.data}) || die "Cannot open examples/sample.data: $!";
&PrintHeader();
print STDERR "[examples/top_prod_by_loc.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
while (<DATA>)
{
    ++$_inprec;
    print STDERR "[examples/top_prod_by_loc.pql ' . localtime() . "] $_inprec records." if ($_inprec % VERBO
SE == 0);
    chomp;
    @I_VAL = split("[|]", $_);
    $key = ( $I_VAL[_I_LOCATION] );
    $O_VAL{$key}{_O_LOCATION} = $I_VAL[_I_LOCATION];
    $I_VAL[_I_SALES_TOTAL] = $I_VAL[_I_SALES_QTY] * $I_VAL[_I_SALES_PRICE];
    $O_VAL{$key}{_O_MAXSALES} = $I_VAL[_I_SALES_TOTAL]
    if (!defined($O_VAL{$key}{_O_MAXSALES}) || $I_VAL[_I_SALES_TOTAL] > $O_VAL{$key}{_O_MAXSALES});

    if (sprintf("%.2f", $I_VAL[_I_SALES_TOTAL]) eq sprintf("%.2f", $O_VAL{$key}{_O_MAXSALES})) {
        $O_VAL{$key}{_O_PRODUCT_CODE} = $I_VAL[_I_PRODUCT_CODE] if (!defined($O_VAL{$key}{_O_PRODUCT_CODE}));
    }
}

foreach $key (sort keys %O_VAL)
{
    print STDOUT
        $O_VAL{$key}{_O_LOCATION},
        $O_VAL{$key}{_O_PRODUCT_CODE}
    ;
}

close(DATA);
print STDERR "[examples/top_prod_by_loc.pql ' . localtime() . "] $_inprec records.";
my $benchmark_end = new Benchmark;
```

```
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/top_prod_by_loc.pql ' . localtime() . "] Code statistics: @{" . timestr($benchmark_timediff) . "}";
#-----
sub PrintHeader
{
    local $\\="\n";
    local $,="| ";
    print STDOUT
        'LOCATION',
        'PRODUCT_CODE'
        ;
}
```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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