



# examples/sales\_ttl\_by\_loc.pql

by *Pequel*

---

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## Pequel Table Example Script

2.3



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## SCRIPT NAME

examples/sales\_ttl\_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**

### 1.2 SALES\_TOTAL

Output Field

#### **Description**

**Sum** aggregation on input field **SALES\_TOTAL**.

### 1.3 TOP\_PRODUCT

Output Field

#### **Description**

Set to input field **TOP\_PRODUCT**

#### **Derived Input Field Evaluation**

```
=> %TOPPRODBYLOC(LOCATION)->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/sales\_ttl\_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

#### 3.1 *TTOPPRODBYLOC*

Table Type: ***external***

Data Source Filename: ***examples/top\_prod\_by\_loc.pql***

Key Field Number: ***1***

**3.1.1 *PRODUCT\_CODE = 2***

## 4. TABLE INFORMATION SUMMARY

### 4.1 Table List Sorted By Table Name TTOPPRODBYLOC — 1 (*external*)



## 5. EXAMPLES/SALES\_TTL\_BY\_LOC.PQL

### options

```

prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/sales_ttl_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.

### load table

```

TTOPPRODBYLOC /* Table Name */ \
  examples/top_prod_by_loc.pql /* Data Source Filename */ \
  1 /* Key Column Number */ \
  \
  PRODUCT_CODE = 2

```

### input section

```

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

TOP_PRODUCT => %TTOPPRODBYLOC(LOCATION)->PRODUCT_CODE

```

### group by

```

LOCATION string

```

### output section

```

string    LOCATION    LOCATION
decimal   SALES_TOTAL sum SALES_TOTAL
string    TOP_PRODUCT TOP_PRODUCT

```

## 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 : sales_ttl_by_loc.pql
#Created On  : Wed Nov 16 14:19:24 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/sales_ttl_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 _I_TOP_PRODUCT       => int    9;
use constant _O_LOCATION          => int    1;
use constant _O_SALES_TOTAL       => int    2;
use constant _O_TOP_PRODUCT       => int    3;
use constant _T_TTOPPRODBYLOC_FLD_PRODUCT_CODE  => int    0;
use constant _I_TTOPPRODBYLOC_LOCATION_FLD_KEY  => int   10;
use constant _I_TTOPPRODBYLOC_LOCATION_FLD_PRODUCT_CODE => int   11;
local $\\="\\n";
local $,="|";
print STDERR "[examples/sales_ttl_by_loc.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 9;
my @I_VAL;
my %O_VAL;
my $key;
my $_inprec=0;
my $_TABLE_TTOPPRODBYLOC = &LoadTableTTOPPRODBYLOC; # ref to %$_TTOPPRODBYLOC hash
open(DATA, q{examples/sample.data}) || die "Cannot open examples/sample.data: $!";
&PrintHeader();
print STDERR "[examples/sales_ttl_by_loc.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
while (<DATA>)
{
    ++$_inprec;
    print STDERR "[examples/sales_ttl_by_loc.pql ' . localtime() . "] $_inprec records." if ($_inprec % VERB
OSE == 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_SALES_TOTAL} += $_I_VAL[_I_SALES_TOTAL] unless ($_I_VAL[_I_SALES_TOTAL] eq '');
    $_I_VAL[_I_TOP_PRODUCT] = $_$_TABLE_TTOPPRODBYLOC{qq{$_I_VAL[_I_LOCATION]}};
    $_O_VAL{$key}{_O_TOP_PRODUCT} = $_I_VAL[_I_TOP_PRODUCT];
}

foreach $key (sort keys %O_VAL)
{
    print STDOUT
        $_O_VAL{$key}{_O_LOCATION},
        $_O_VAL{$key}{_O_SALES_TOTAL},
        $_O_VAL{$key}{_O_TOP_PRODUCT}
    ;
}
}
```

```

close(DATA);
print STDERR '[examples/sales_ttl_by_loc.pql ' . localtime() . "] $_inprec records.";
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/sales_ttl_by_loc.pql ' . localtime() . "] Code statistics: @{{timestr($benchmark_timediff)}}";
#-----
##### Table TTOPPRODBYLOC --> Type :ETL::Pequel::Type::Table::External::Pequel #####
sub LoadTableTTOPPRODBYLOC
{
    my $_TABLE_TTOPPRODBYLOC;
    print STDERR '[examples/sales_ttl_by_loc.pql ' . localtime() . "] Loading table TTOPPRODBYLOC from example
s/top_prod_by_loc.pql...";
    my $pid = open(TTOPPRODBYLOC, '-|'); # Fork
    my $count=0;
    if ($pid) # Parent
    {
        while (<TTOPPRODBYLOC>)
        {
            chomp;
            my (@flds) = split("[|]", $_, -1);
            $_TABLE_TTOPPRODBYLOC{$flds[0]} = $flds[ 1 ];
            print STDERR '[examples/sales_ttl_by_loc.pql ' . localtime() . "] Table TTOPPRODBYLOC $. records..
." if ($. % 100000 == 0);
        }

        $count=$_;
        close(TTOPPRODBYLOC);
    }

    else # Child
    {
        &p_LoadTableTTOPPRODBYLOC::LoadTableTTOPPRODBYLOC;
        exit(0);
    }

    print STDERR '[examples/sales_ttl_by_loc.pql ' . localtime() . "] Table TTOPPRODBYLOC loaded $count record
s.";
    close(TTOPPRODBYLOC);
    return \$_TABLE_TTOPPRODBYLOC;
}

{
    package p_LoadTableTTOPPRODBYLOC;
    sub LoadTableTTOPPRODBYLOC
    {
        #!/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 14:19:23 2005
        # Perl Version: /usr/bin/perl 5.6.1 on solaris
        # For :
        #-----
        # Options:
        # 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
% VERBOSE == 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_C
ODE}));
    }

    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
k_timediff)]";
#-----
sub PrintHeader
{
    {
        local $\\="\n";
        local $,="|";
        print STDOUT
            'LOCATION',
            'PRODUCT_CODE'
        ;
    }
}

sub PrintHeader
{
    {
        local $\\="\n";
        local $,="|";
        print STDOUT
            'LOCATION',
            'SALES_TOTAL',
            'TOP_PRODUCT'
        ;
    }
}

```

## 7. ABOUT PEQUEL

This document was generated by Pequel.

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

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