



examples/divert_record.pql

by *Pequel*

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Divert Record Example Script

2.3

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SCRIPT NAME

examples/divert_record.pql

DESCRIPTION

1. PROCESS DETAILS

Input records are read from chain_pequel_pt1.pql. The input record contains **3** fields. Fields are delimited by the '|' character.

Output records are written to standard output. The output record contains **4** fields. Fields are delimited by the '|' character.

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

1.1 CATEGORY

Output Field

Description

Set to input field **CATEGORY**

Derived Input Field Evaluation

=> 'HIGH'

1.2 LOCATION

Output Field

Description

Set to input field **LOCATION**

1.3 PRODUCT_CODE

Output Field

Description

Set to input field **PRODUCT_CODE**

1.4 SALES_TOTAL

Output Field

Description

Set to input field **SALES_TOTAL**

2. CONFIGURATION SETTINGS

2.1 *pequeldoc*

generate pod / pdf pequel script Reference Guide.: pdf

2.2 *detail*

Include Pequel Generated Program chapter in Pequeldoc: 1

2.3 *prefix*

directory pathname prefix.: examples

2.4 *script_name*

script filename: examples/divert_record.pql

2.5 *input_file*

input data filename: chain_pequel_pt1.pql

2.6 *optimize*

optimize generated code.: 1

2.7 *doc_title*

document title.: Divert Record 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/DIVERT_RECORD.PQL

options

```
pequeldoc(pdf)
detail(1)
prefix(examples)
script_name(examples/divert_record.pql)
input_file(chain_pequel_pt1.pql)
optimize(1)
doc_title(Divert Record Example Script)
doc_email(sample@youraddress.com)
doc_version(2.3)
```

input section

```
LOCATION
PRODUCT_CODE
SALES_TOTAL
CATEGORY => 'HIGH'
```

divert record(diverted_record_low.pql)

```
SALES_TOTAL <= 100000
```

divert record(diverted_record_med.pql)

```
SALES_TOTAL > 100000 && SALES_TOTAL <= 200000
```

sort by

```
LOCATION string
```

output section

string	CATEGORY	CATEGORY
string	LOCATION	LOCATION
string	PRODUCT_CODE	PRODUCT_CODE
decimal	SALES_TOTAL	SALES_TOTAL

sort output

```
SALES_TOTAL numeric
```

6. PEQUEL GENERATED PROGRAM

```
# vim: syntax=perl ts=4 sw=4
#-----
#Generated By: pequel Version 2.3-4, Build: Wednesday October 12 23:16:49 BST 2005
#           : https://sourceforge.net/projects/pequel/
#Script Name : examples/divert_record.pql
#Created On  : Wed Oct 12 15:27:58 2005
#For         :
#-----
#Options:
#pequeldoc(pdf) generate pod / pdf pequel script Reference Guide.
#detail(1) Include Pequel Generated Program chapter in Pequeldoc
#prefix(examples) directory pathname prefix.
#script_name(examples/divert_record.pql) script filename
#input_file(chain_pequel_pt1.pql) input data filename
#optimize(1) optimize generated code.
#doc_title(Divert Record Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
#doc_version(2.3) document version for pequel script.
#-----
use strict;
use Fcntl ':flock';
use constant _I_LOCATION      => int 0;
use constant _I_PRODUCT_CODE => int 1;
use constant _I_SALES_TOTAL  => int 2;
use constant _I_CATEGORY     => int 3;
use constant _O_CATEGORY     => int 1;
use constant _O_LOCATION     => int 2;
use constant _O_PRODUCT_CODE => int 3;
use constant _O_SALES_TOTAL  => int 4;
local $\\="\\n"; local $,="|";
print STDERR "[examples/divert_record.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 3;
my @I_VAL;
my @O_VAL;
foreach my $f (1..4) { $O_VAL[$f] = undef; }
if (open(CHAIN_PEQUEL_PT1, '-|') == 0) # Fork -- read from child
{
    &p_execPequelCHAIN_PEQUEL_PT1::execPequelCHAIN_PEQUEL_PT1;
    exit(0);
}

open(STDOUT, '|-', q{sort -t'|' -y -k 4n,4n 2>/dev/null |});
if (open(DIVERT_DIVERTED_RECORD_LOW, '|-') == 0) # Fork -- write to child
{
    &p_divert_diverted_record_low::divert_diverted_record_low;
    exit(0);
}

if (open(DIVERT_DIVERTED_RECORD_MED, '|-') == 0) # Fork -- write to child
{
    &p_divert_diverted_record_med::divert_diverted_record_med;
    exit(0);
}

print STDERR "[examples/divert_record.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
while (<CHAIN_PEQUEL_PT1>)
{
    print STDERR "[examples/divert_record.pql ' . localtime() . "] $. records." if ($. % VERBOSE == 0);
    chomp;
    @I_VAL = split("[|]", $_);
    if ($I_VAL[_I_SALES_TOTAL] <= 100000)
    {
        print DIVERT_DIVERTED_RECORD_LOW
            @I_VAL[0..LAST_ICELL];
        next;
    }

    if ($I_VAL[_I_SALES_TOTAL] > 100000 && $I_VAL[_I_SALES_TOTAL] <= 200000)
    {
        print DIVERT_DIVERTED_RECORD_MED
            @I_VAL[0..LAST_ICELL];
        next;
    }

    $I_VAL[_I_CATEGORY] = 'HIGH';
    $O_VAL[_O_CATEGORY] = $I_VAL[_I_CATEGORY];
    $O_VAL[_O_LOCATION] = $I_VAL[_I_LOCATION];
}
```

```

    $O_VAL[_O_PRODUCT_CODE] = $I_VAL[_I_PRODUCT_CODE];
    $O_VAL[_O_SALES_TOTAL] = $I_VAL[_I_SALES_TOTAL];
    flock(STDOUT, LOCK_EX);
    print STDOUT
        $O_VAL[_O_CATEGORY],
        $O_VAL[_O_LOCATION],
        $O_VAL[_O_PRODUCT_CODE],
        $O_VAL[_O_SALES_TOTAL]
    ;
    flock(STDOUT, LOCK_UN);
}

close(DIVERT_DIVERTED_RECORD_MED);
close(DIVERT_DIVERTED_RECORD_LOW);
close(STDOUT);
print STDERR '[examples/divert_record.pql ' . localtime() . "] $. records.";
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/divert_record.pql ' . localtime() . "] Code statistics: @([timestr($benchmark_timediff
))]";
#-----
{
    package p_execPequelCHAIN_PEQUEL_PT1;
    sub execPequelCHAIN_PEQUEL_PT1
    {
        # vim: syntax=perl ts=4 sw=4
        #-----
        #   Generated By: pequel Version 2.3-4, Build: Wednesday October 12 23:16:49 BST 2005
        #               : https://sourceforge.net/projects/pequel/
        #   Script Name : examples/chain_pequel_pt1.pql
        #   Created On  : Wed Oct 12 15:28:00 2005
        #   For         :
        #-----
        #   Options:
        #       input_file(sample.data) input data filename
        #       optimize(1) optimize generated code.
        #       hash(1) Generate in memory. Input data can be unsorted.
        #       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 $key;
        open(DATA, q{examples/sample.data}) || die "Cannot open examples/sample.data: $!";
        open(STDOUT, '|-', q{sort -t'|' -y -k 1,1 2>/dev/null |});
        print STDERR '[examples/chain_pequel_pt1.pql ' . localtime() . "] Start";
        use Benchmark;
        my $benchmark_start = new Benchmark;
        while (<DATA>)
        {
            print STDERR '[examples/chain_pequel_pt1.pql ' . localtime() . "] $. records." if ($. % VERBOSE ==
0);
            chomp;
            @I_VAL = split("[|]", $_);
            $key = ( $I_VAL[_I_LOCATION] ) . '|' . ( $I_VAL[_I_PRODUCT_CODE] );
            $O_VAL{$key}{_O_LOCATION} = $I_VAL[_I_LOCATION];
            $O_VAL{$key}{_O_PRODUCT_CODE} = $I_VAL[_I_PRODUCT_CODE];
            $I_VAL[_I_SALES_TOTAL] = $I_VAL[_I_SALES_QTY] * $I_VAL[_I_SALES_PRICE];
            $O_VAL{$key}{_O_SALES_TOTAL} += $I_VAL[_I_SALES_TOTAL] unless ($I_VAL[_I_SALES_TOTAL] eq '');
        }

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

```

```

    }

    close(STDOUT);
    print STDERR '[examples/chain_pequel_ptl.pql ' . localtime() . "] $. records.";
    my $benchmark_end = new Benchmark;
    my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
    print STDERR '[examples/chain_pequel_ptl.pql ' . localtime() . "] Code statistics: @{{timestr($benchmark_timediff)}}";
#-----
}

}

{
    package p_divert_diverted_record_low;
    sub divert_diverted_record_low
    {
        vim: syntax=perl ts=4 sw=4
#-----
# Generated By: pequel Version 2.3-4, Build: Wednesday October 12 23:16:49 BST 2005
#               : https://sourceforge.net/projects/pequel/
# Script Name : examples/diverted_record_low.pql
# Created On  : Wed Oct 12 15:28:01 2005
# For         :
#-----
# Options:
#   optimize(1) optimize generated code.
#   doc_title(Diverted Record Example Script) document title.
#   doc_email(sample@youraddress.com) document email entry.
#   doc_version(2.3) document version for pequel script.
#   hash(1) Generate in memory. Input data can be unsorted.
#-----
    use strict;
    use Fcntl ':flock';
    use constant _I_LOCATION      => int    0;
    use constant _I_PRODUCT_CODE  => int    1;
    use constant _I_SALES_TOTAL   => int    2;
    use constant _I_CATEGORY      => int    3;
    use constant _O_CATEGORY      => int    1;
    use constant _O_LOCATION      => int    2;
    use constant _O_PRODUCT_CODE  => int    3;
    use constant _O_SALES_TOTAL   => int    4;
    local $\\="\n"; local $,="|";
    print STDERR '[examples/diverted_record_low.pql ' . localtime() . "] Init";
    use constant VERBOSE => int 10000;
    use constant LAST_ICELL => int 3;
    my @I_VAL;
    my %O_VAL;
    my $key;
    print STDERR '[examples/diverted_record_low.pql ' . localtime() . "] Start";
    use Benchmark;
    my $benchmark_start = new Benchmark;
    while (<STDIN>)
    {
        print STDERR '[examples/diverted_record_low.pql ' . localtime() . "] $. records." if ($. % VERBOSE
== 0);
        chomp;
        @I_VAL = split("[|]", $_);
        $key = ( $I_VAL[_I_LOCATION] ) . '|' . ( $I_VAL[_I_PRODUCT_CODE] );
        $I_VAL[_I_CATEGORY] = 'LOW';
        $O_VAL{$key}{_O_CATEGORY} = $I_VAL[_I_CATEGORY];
        $O_VAL{$key}{_O_LOCATION} = $I_VAL[_I_LOCATION];
        $O_VAL{$key}{_O_PRODUCT_CODE} = $I_VAL[_I_PRODUCT_CODE];
        $O_VAL{$key}{_O_SALES_TOTAL} = $I_VAL[_I_SALES_TOTAL];
    }

    foreach $key (sort keys %O_VAL)
    {
        flock(STDOUT, LOCK_EX);
        print STDOUT
            $O_VAL{$key}{_O_CATEGORY},
            $O_VAL{$key}{_O_LOCATION},
            $O_VAL{$key}{_O_PRODUCT_CODE},
            $O_VAL{$key}{_O_SALES_TOTAL}
        ;
        flock(STDOUT, LOCK_UN);
    }

    print STDERR '[examples/diverted_record_low.pql ' . localtime() . "] $. records.";
    my $benchmark_end = new Benchmark;
    my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
    print STDERR '[examples/diverted_record_low.pql ' . localtime() . "] Code statistics: @{{timestr($benchmark_timediff)}}";
#-----

```

```

    }
}

{
    package p_divert_diverted_record_med;
    sub divert_diverted_record_med
    {
        # vim: syntax=perl ts=4 sw=4
        #-----
        # Generated By: pequel Version 2.3-4, Build: Wednesday October 12 23:16:49 BST 2005
        #               : https://sourceforge.net/projects/pequel/
        # Script Name : examples/diverted_record_med.pql
        # Created On  : Wed Oct 12 15:28:03 2005
        # For         :
        #-----
        # Options:
        #   optimize(1) optimize generated code.
        #   doc_title(Diverted Record Example Script) document title.
        #   doc_email(sample@youraddress.com) document email entry.
        #   doc_version(2.3) document version for pequel script.
        #-----
        use strict;
        use Fcntl ':flock';
        use constant _I_LOCATION      => int    0;
        use constant _I_PRODUCT_CODE => int    1;
        use constant _I_SALES_TOTAL  => int    2;
        use constant _I_CATEGORY     => int    3;
        use constant _O_CATEGORY     => int    1;
        use constant _O_LOCATION     => int    2;
        use constant _O_PRODUCT_CODE => int    3;
        use constant _O_SALES_TOTAL  => int    4;
        local $\\ = "\n"; local $, = "|";
        print STDERR "[examples/diverted_record_med.pql ' . localtime() . "] Init";
        use constant VERBOSE => int 10000;
        use constant LAST_ICELL => int 3;
        my @I_VAL;
        my @O_VAL;
        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..4) { $O_VAL[$f] = undef; }
        # Sort:LOCATION(asc:string) PRODUCT_CODE(asc:string)
        open(DATA, q{cat - | sort -t'|' -y -k 1,1 -k 2,2 2>/dev/null |}) || die "Cannot open input: $!";
        open(STDOUT, '|-', q{sort -t'|' -y -k 3,3 2>/dev/null |});
        print STDERR "[examples/diverted_record_med.pql ' . localtime() . "] Start";
        use Benchmark;
        my $benchmark_start = new Benchmark;
        while (<DATA>)
        {
            print STDERR "[examples/diverted_record_med.pql ' . localtime() . "] $. records." if ($. % VERBOSE
== 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_P
RODUCT_CODE)
            {
                flock(STDOUT, LOCK_EX);
                print STDOUT
                    $O_VAL[_O_CATEGORY],
                    $O_VAL[_O_LOCATION],
                    $O_VAL[_O_PRODUCT_CODE],
                    $O_VAL[_O_SALES_TOTAL]
                ;
                flock(STDOUT, LOCK_UN);
                $previous_key__I_LOCATION = $key__I_LOCATION;
                $previous_key__I_PRODUCT_CODE = $key__I_PRODUCT_CODE;
                @O_VAL = undef;
            }

            $I_VAL[_I_CATEGORY] = 'MEDIUM';
            $O_VAL[_O_CATEGORY] = $I_VAL[_I_CATEGORY];
            $O_VAL[_O_LOCATION] = $I_VAL[_I_LOCATION];
            $O_VAL[_O_PRODUCT_CODE] = $I_VAL[_I_PRODUCT_CODE];
            $O_VAL[_O_SALES_TOTAL] = $I_VAL[_I_SALES_TOTAL];
        }
    }
}

```

```

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

}

```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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