



examples/local_table.pql

by *Pequel*

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Local Table Example Script

2.2

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SCRIPT NAME

examples/local_table.pql

DESCRIPTION

Demonstrates use of local tables. LOC_DESCRIPT is a local table. Each line in the 'init table' section contains an entry in this table. Each entry consist of table name key value field list values. The '%' character is used to denote a table name. The parameter contains the key value to look up.

1. PROCESS DETAILS

Input records are read from standard input. The input record contains **8** 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*).

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

1.1 LOCATION

Output Field

Description

Set to input field **LOCATION**

1.2 DESCRIPTION

Output Field

Description

Set to input field **LDESCRIPT**

Derived Input Field Evaluation

=> %LOC_DESCRIPT(LOCATION)

1.3 NUM_PRODUCTS

Output Field

Description

Distinct aggregation on input field **PRODUCT_CODE**.

1.4 AVG_COST_PRICE

Output Field

Description

Avg aggregation on input field **COST_PRICE**.

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/local_table.pql

2.5 *header*

write header record to output.: 1

2.6 *optimize*

optimize generated code.: 1

2.7 *doc_title*

document title.: Local Table Example Script

2.8 *doc_email*

document email entry.: sample@youraddress.com

2.9 *doc_version*

document version for pequel script.: 2.2

3. TABLES

3.1 *LOC_DESCRIPT*

Table Type: *local*

Data

NSW — New South Wales

WA — Western Australia

SYD — Sydney

MEL — Melbourne

SA — South Australia

NT — Northern Territory

QLD — Queensland

VIC — Victoria

PER — Perth

ALIC — Alice Springs

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

LOC_DESCRIPT — 1 (*local*)

5. EXAMPLES/LOCAL_TABLE.PQL

options

```

prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/local_table.pql)
header(1)
optimize(1)
doc_title(Local Table Example Script)
doc_email(sample@youraddress.com)
doc_version(2.2)

```

description

Demonstrates use of local tables. LOC_DESCRIPTOR is a local table. Each line in the 'init table' section contains an entry in this table. Each entry consist of
 table name
 key value
 field list values.
 The '%' character is used to denote a table name. The parameter contains the key value to look up.

init table

```

LOC_DESCRIPTOR NSW New South Wales
LOC_DESCRIPTOR WA Western Australia
LOC_DESCRIPTOR SYD Sydney
LOC_DESCRIPTOR MEL Melbourne
LOC_DESCRIPTOR SA South Australia
LOC_DESCRIPTOR NT Northern Territory
LOC_DESCRIPTOR QLD Queensland
LOC_DESCRIPTOR VIC Victoria
LOC_DESCRIPTOR PER Perth
LOC_DESCRIPTOR ALIC Alice Springs

```

input section

```

PRODUCT_CODE
COST_PRICE
DESCRIPTION
SALES_CODE
SALES_PRICE
SALES_QTY
SALES_DATE
LOCATION
LDESCRIPTION => %LOC_DESCRIPTOR(LOCATION)

```

sort by

```

LOCATION string

```

group by

```

LOCATION string

```

output section

```

string      LOCATION      LOCATION
string      DESCRIPTION    LDESCRIPTION
numeric     NUM_PRODUCTS   distinct PRODUCT_CODE
numeric     AVG_COST_PRICE avg COST_PRICE

```

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 : local_table.pql
#Created On  : Wed Nov 16 14:05:36 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/local_table.pql) script filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
#doc_title(Local Table Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
#doc_version(2.2) 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_LDESCRIPT         => int    8;
use constant _O_LOCATION          => int    1;
use constant _O_DESCRIPTION        => int    2;
use constant _O_NUM_PRODUCTS      => int    3;
use constant _O_AVG_COST_PRICE    => int    4;
use constant _T_LOC_DESCRIPT_FLD_1 => int    0;
use constant _I_LOC_DESCRIPT_LOCATION_FLD_KEY => int    9;
use constant _I_LOC_DESCRIPT_LOCATION_FLD_1 => int   10;
local $\\="\\n";
local $,="|";
print STDERR "[examples/local_table.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 8;
my @I_VAL;
my @O_VAL;
my $_inprecs=0;
my %DISTINCT;
my %AVERAGE;
my $key__I_LOCATION;
my $previous_key__I_LOCATION = undef;
foreach my $f (1..4) { $O_VAL[$f] = undef; }
my $TABLE_LOC_DESCRIPT = &InitLookupLOC_DESCRIPT; # ref to %$LOC_DESCRIPT hash
# 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/local_table.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
while (<DATA>)
{
    ++$_inprecs;
    print STDERR "[examples/local_table.pql ' . localtime() . "] $_inprecs records." if ($_inprecs % VERBOSE =
= 0);
    chomp;
    @I_VAL = split("[|]", $_);
    $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)
    {
        $O_VAL[_O_AVG_COST_PRICE] = ($AVERAGE{_O_AVG_COST_PRICE}{_COUNT} == 0 ? 0 : $AVERAGE{_O_AVG_COST_PRICE}
){_SUM} / $AVERAGE{_O_AVG_COST_PRICE}{_COUNT});
        print STDOUT
            $O_VAL[_O_LOCATION],
            $O_VAL[_O_DESCRIPTION],
            $O_VAL[_O_NUM_PRODUCTS],
```

```

        $O_VAL[_O_AVG_COST_PRICE]
    ;
    $previous_key__I_LOCATION = $key__I_LOCATION;
    @O_VAL = undef;
    %DISTINCT = undef;
    %AVERAGE = undef;
}

$O_VAL[_O_LOCATION] = $I_VAL[_I_LOCATION];
$I_VAL[_I_LDESCRIPT] = $$_TABLE_LOC_DESCRIPT{qq{$I_VAL[_I_LOCATION]}};
$O_VAL[_O_DESCRIPTION] = $I_VAL[_I_LDESCRIPT];
$O_VAL[_O_NUM_PRODUCTS]++
    if (defined($I_VAL[_I_PRODUCT_CODE]) && ++$DISTINCT{_O_NUM_PRODUCTS}{qq{$I_VAL[_I_PRODUCT_CODE]}} == 1
);
$AVERAGE{_O_AVG_COST_PRICE}{_SUM} += $I_VAL[_I_COST_PRICE];
$AVERAGE{_O_AVG_COST_PRICE}{_COUNT}++;
}

$O_VAL[_O_AVG_COST_PRICE] = ($AVERAGE{_O_AVG_COST_PRICE}{_COUNT} == 0 ? 0 : $AVERAGE{_O_AVG_COST_PRICE}{_SUM}
/ $AVERAGE{_O_AVG_COST_PRICE}{_COUNT});
print STDOUT
    $O_VAL[_O_LOCATION],
    $O_VAL[_O_DESCRIPTION],
    $O_VAL[_O_NUM_PRODUCTS],
    $O_VAL[_O_AVG_COST_PRICE]
;
close(DATA);
print STDERR '[examples/local_table.pql ' . localtime() . "] $_inprec records.";
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[examples/local_table.pql ' . localtime() . "] Code statistics: @{{timestr($benchmark_timediff)}}
}";
#-+-+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
#+++++ Table LOC_DESCRIPT --> Type :ETL::Pequel::Type::Table::Local ++++++
sub InitLookupLOC_DESCRIPT
{
    my %_TABLE_LOC_DESCRIPT;
    %_TABLE_LOC_DESCRIPT =
    (
        'ALIC' => 'Alice Springs',
        'MEL' => 'Melbourne',
        'NSW' => 'New South Wales',
        'NT' => 'Northern Territory',
        'PER' => 'Perth',
        'QLD' => 'Queensland',
        'SA' => 'South Australia',
        'SYD' => 'Sydney',
        'VIC' => 'Victoria',
        'WA' => 'Western Australia'
    );
    return \%_TABLE_LOC_DESCRIPT;
}

sub PrintHeader
{
    local $\="\n";
    local $,="|";
    print STDOUT
        'LOCATION',
        'DESCRIPTION',
        'NUM_PRODUCTS',
        'AVG_COST_PRICE'
    ;
}

```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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