examples/aggregates_1.pql by Pequel

sample@youraddress.com

Aggregates Example Script

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SCRIPT NAME

examples/aggregates_1.pql

DESCRIPTION

Demonstrates aggregation and use of various aggregate function.

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 *11* fields. Fields are delimited by the '|' character.

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

Output Field

Description

Min aggregation on input field COST_PRICE.

1.4 MAX COST PRICE

Output Field

Description

Max aggregation on input field COST_PRICE.

1.5 AVG_SALES_PRICE

Output Field

Description

Mean aggregation on input field **SALES_PRICE**.

1.7 SALES_TOTAL

Output Field

Description

Sum aggregation on input field SALES_TOTAL.

1.8 SALES_TOTAL_2

Output Field

Description

Sum aggregation on input field **SALES_TOTAL**.

1.9 RANGE_COST

Output Field

Description

Range aggregation on input field **COST_PRICE**.

1.10 MODE_SALES_CODE

Output Field

Description

Mode aggregation on input field SALES_CODE.

1.11 AVGS

Output Field

Description

Derived (calculated) field.

Derived Field Evaluation

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 noverbose

do not progress counter: 1

2.4 prefix

directory pathname prefix.: examples

2.5 script_name

script filename: examples/aggregates_1.pql

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 nulls

print zero for null numeric/decimal.: 1

2.10 doc_title

document title.: Aggregates Example Script

2.11 doc email

document email entry.: sample@youraddress.com

2.12 doc version

document version for pequel script.: 2.2

3. TABLES

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

5. EXAMPLES/AGGREGATES_1.PQL

options

```
pequeldoc(pdf)
detail(1)
noverbose(1)
prefix(examples)
script_name(examples/aggregates_1.pql)
header(1)
optimize(1)
hash(1)
nulls(1)
doc_title(Aggregates Example Script)
doc_email(sample@youraddress.com)
doc_version(2.2)
```

description

Demonstrates aggregation and use of various aggregate function.

input section

```
PRODUCT_CODE

COST_PRICE

DESCRIPTION

SALES_CODE

SALES_PRICE

SALES_DATE

LOCATION

SALES_TOTAL => SALES_QTY * SALES_PRICE
```

group by

```
PRODUCT_CODE string LOCATION string
```

output section

6. PEQUEL GENERATED PROGRAM

```
#!/usr/bin/perl
\# vim: syntax=perl ts=4 sw=4
#Generated By: pequel Version 2.3-6, Build: Wednesday October 26 23:16:49 BST 2005
           : http://sourceforge.net/projects/pequel/
#Script Name : examples/aggregates_1.pql
#Created On : Wed Oct 26 14:21:36 2005
#Perl Version: /usr/bin/perl 5.6.1 on solaris
#For
#Options:
#pequeldoc(pdf) generate pod / pdf pequel script Reference Guide.
#detail(1) Include Pequel Generated Program chapter in Pequeldoc
#noverbose(1) do not progress counter
#prefix(examples) directory pathname prefix.
#script_name(examples/aggregates_1.pql) script filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
{\rm \#hash}(1) Generate in memory. Input data can be unsorted.
\#nulls(1) print zero for null numeric/decimal.
#doc_title(Aggregates 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;
                            => int
use constant _I_COST_PRICE
                                      1;
use constant _I_DESCRIPTION
                             => int
                                      2;
use constant _I_SALES_CODE
                             => int.
                                       3;
use constant _I_SALES_PRICE
                             => int.
                                       4;
                             => int
use constant _I_SALES_QTY
                                      5;
use constant _I_SALES_DATE
                             => int
                                       6;
use constant _I_LOCATION
                             => int
                                       7;
use constant _I_SALES_TOTAL
                             => int.
                                       8;
                             => int
use constant _O_LOCATION
                                      1;
use constant _O_PRODUCT_CODE
                             => int
                                      2;
use constant _O_MIN_COST_PRICE
                             => int
                                       3;
use constant _O_MAX_COST_PRICE
                             => int
                                       4;
use constant _O_AVG_SALES_PRICE
                             => int
                                      5;
use constant _O__AVG_SALES_QTY
                             => int
                                      6;
use constant _O_SALES_TOTAL
                             => int
                                       7;
use constant _O_SALES_TOTAL_2
                            => int
                                      8;
use constant _O_RANGE_COST
                             => int.
                                      9;
use constant _O_MODE_SALES_CODE
                            => int
                                     10;
                                    11;
use constant _O_AVGS
                             => int
local $\="\n";
local $,="|";
use constant VERBOSE => int 10000;
use constant LAST ICELL => int 8;
my @I VAL;
my %O VAL;
my škev;
my %AVERAGE;
my %RANGE;
my %MODE;
&PrintHeader();
while (<STDIN>)
{
   chomp;
   @I_VAL = split("[|]", $_);
   $key = ( $I_VAL[_I_PRODUCT_CODE] ) . '|' . ( $I_VAL[_I_LOCATION] );
   $0_VAL{$key}{_O_LOCATION} = $I_VAL[_I_LOCATION];
   $0_VAL{$key}{_O_PRODUCT_CODE} = $I_VAL[_I_PRODUCT_CODE];
   $0_VAL{$key}{_O_MIN_COST_PRICE} = $I_VAL[_I_COST_PRICE]
      E});
   $0_VAL{$key}{_O_MAX_COST_PRICE} = $I_VAL[_I_COST_PRICE]
       \label{local_price}  \mbox{if (!defined($O_VAL{$key}_{O_MAX\_COST\_PRICE}) | | $I_VAL[_I\_COST\_PRICE] > $O_VAL{$key}_{O_MAX\_COST\_PRICE}] } 
E } ) ;
   $AVERAGE{$key}{_O_AVG_SALES_PRICE}{_SUM} += $I_VAL[_I_SALES_PRICE];
   $AVERAGE{$key}{_O_AVG_SALES_PRICE}{_COUNT}++;
   $AVERAGE{$key}{_O_AVG_SALES_QTY}{_SUM} += $I_VAL[_I_SALES_QTY];
   $AVERAGE{$key}{_O_AVG_SALES_QTY}{_COUNT}++;
   $I_VAL[_I_SALES_TOTAL] = $I_VAL[_I_SALES_QTY] * $I_VAL[_I_SALES_PRICE];
   $0_VAL{$key}{_0_SALES_TOTAL} += $i_VAL[_i_SALES_TOTAL] unless ($i_VAL[_i_SALES_TOTAL] eq '');
   $I_VAL[_I_SALES_TOTAL] = $I_VAL[_I_SALES_QTY] * $I_VAL[_I_SALES_PRICE];
   $O_VAL{$key}{_O_SALES_TOTAL_2} += $I_VAL[_I_SALES_TOTAL] unless ($I_VAL[_I_SALES_TOTAL] eq '');
   $RANGE{$key}{_O_RANGE_COST}{_MIN} = $I_VAL[_I_COST_PRICE]
```

```
(
                             !defined($RANGE{$key}{_O_RANGE_COST}{_MIN})
                             || $I_VAL[_I_COST_PRICE] < $RANGE{$key}{_O_RANGE_COST}{_MIN}
                   );
          $RANGE{$key}{_O_RANGE_COST}{_MAX} = $I_VAL[_I_COST_PRICE]
                   if
                   (
                             !defined(\$RANGE\{\$key\}\{\_O\_RANGE\_COST\}\{\_MAX\})
                             || $I_VAL[_I_COST_PRICE] > $RANGE{$key}{_O_RANGE_COST}{_MAX}
          $MODE{$key}{ O MODE SALES CODE}{qq{$I VAL[ I SALES CODE]}}++;
}
foreach $key (sort keys %0_VAL)
           \begin{tabular}{ll} $O_VAL\{$key\}\{_O_AVG_SALES\_PRICE\} = ($AVERAGE\{$key}\{_O_AVG_SALES\_PRICE\}\{_COUNT\} == 0 ? 0 : $AVERAGE\{$key\}\{_COUNT\} == 0 ? 0 : $AVERAGE\{$key}\{_COUNT\} == 0 ?
O_AVG_SALES_PRICE}{_SUM} / $AVERAGE{$key}{_O_AVG_SALES_PRICE}{_COUNT});
          $O_VAL{$key}{_O_AVG_SALES_QTY} = ($AVERAGE{$key}{_O_AVG_SALES_QTY}{_COUNT} == 0 ? 0 : $AVERAGE{$key}{_O_
_CODE } } ) [0]));
          $O_VAL{$key}{_O_AVGS} = $O_VAL{$key}{_O_AVG_SALES_QTY} * 2;
          print STDOUT
                   $0_VAL{$key}{_O_LOCATION},
                   $0_VAL{$key}{_O_PRODUCT_CODE},
$0_VAL{$key}{_O_MIN_COST_PRICE},
                   $0_VAL{$key}{_O_MAX_COST_PRICE},
$0_VAL{$key}{_O_AVG_SALES_PRICE},
                   $0_VAL{$key}{_O_SALES_TOTAL},
$0_VAL{$key}{_O_SALES_TOTAL_2}
                   $0_VAL{$key}{_O_RANGE_COST},
                   $0_VAL{$key}{_O_MODE_SALES_CODE},
                   $0_VAL{$key}{_O_AVGS}
sub PrintHeader
          local $\="\n";
          local $,="|";
         print
                   'PRODUCT_CODE'
                   'MIN_COST_PRICE'
                   'MAX_COST_PRICE'
                   'AVG_SALES_PRICE',
                   'SALES_TOTAL'
                   'SALES_TOTAL_2'
                   'RANGE_COST',
                   'MODE_SALES_CODE',
}
```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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