statistics_aggr.pql by _{Pequel}

sample@youraddress.com

Statistics Aggregates Example Script

2.2

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SCRIPT NAME

statistics_aggr.pql

DESCRIPTION

Demonstrate various statistical aggregates functions.

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 12 fields. Fields are delimited by the '|' character.

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

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

1.1 SALES_CODE

Output Field

Description

Set to input field SALES_CODE

1.2 COUNT_LOCATION

Output Field

Description

Distinct aggregation on input field LOCATION.

1.3 COUNT PRODUCTS

Output Field

Description

Distinct aggregation on input field PRODUCT_CODE.

1.4 TOTAL_SALES_PRICE

Output Field

Description

Sum aggregation on input field SALES_PRICE.

1.5 TOTAL_SALES_QTY

Output Field

Description

Sum aggregation on input field SALES_QTY.

1.6 MEDIAN_QTY

Output Field

Description

Median aggregation on input field SALES_QTY.

1.7 VARIANCE_QTY

Output Field

Description

Variance aggregation on input field SALES_QTY.

1.8 STDDEV_QTY

Output Field

Description

Stddev aggregation on input field SALES_QTY.

1.9 RANGE QTY

Output Field

Description

Range aggregation on input field SALES_QTY.

1.10 RANGE_QTY_2

Output Field

Description

Derived (calculated) field.

Derived Field Evaluation

1.11 RANGE_QTY_3

Output Field

Description

Derived (calculated) field.

Derived Field Evaluation

1.12 TEST_1

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 script_name

script filename: statistics_aggr.pql

2.4 header

write header record to output.: 1

2.5 optimize

optimize generated code.: 1

2.6 doc title

document title.: Statistics Aggregates Example Script

2.7 doc_email

document email entry.: sample@youraddress.com

2.8 doc_version

document version for pequel script.: 2.2

3. TABLES

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

5. STATISTICS_AGGR.PQL

options

```
pequeldoc(pdf)
detail(1)
script_name(statistics_aggr.pql)
header(1)
optimize(1)
doc_title(Statistics Aggregates Example Script)
doc_email(sample@youraddress.com)
doc_version(2.2)
```

description

Demonstrate various statistical aggregates functions.

sort by

SALES_CODE string

group by

SALES_CODE string

input section

PRODUCT_CODE
COST_PRICE
DESCRIPTION
SALES_CODE
SALES_PRICE
SALES_QTY
SALES_DATE
LOCATION

output section

```
numeric COUNT_LOCATION distinct LOCATION numeric COUNT_PRODUCTS distinct PRODUCT_CODE decimal TOTAL_SALES_PRICE sum SALES_PRICE decimal TOTAL_SALES_QTY sum SALES_QTY numeric MEDIAN_QTY median SALES_QTY numeric VARIANCE_QTY variance SALES_QTY numeric STDEV_QTY stddev SALES_QTY numeric RANGE_QTY range SALES_QTY numeric RANGE_QTY = RANGE_QTY 2 = RANGE_QTY 2 = RANGE_QTY * 2 = RANGE_QTY * 3 decimal TEST_1 = MEDIAN_QTY + 100
```

6. PEQUEL GENERATED PROGRAM

```
# vim: syntax=perl ts=4 sw=4
#Generated By: pequel Version 2.2-9, Build: Tuesday September 13 08:43:08 BST 2005
            : https://sourceforge.net/projects/pequel/
#Script Name : statistics_aggr.pql
#Created On : Tue Sep 13 10:43:17 2005
#For
#-----
#Options:
#pequeldoc(pdf) generate pod / pdf pequel script Reference Guide.
#detail(1) Include Pequel Generated Program chapter in Pequeldoc
#script_name(statistics_aggr.pql) script filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
#doc_title(Statistics Aggregates Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
\#doc\_version(2.2) document version for pequel script.
#-----
                                                    use strict;
local $\="\n"; local $,="|";
print STDERR '[statistics_aggr.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 7;
my @I_VAL;
my @O VAL;
my %DISTINCT;
my %MEDIAN;
my %MEDIAN_COUNT;
my %VARIANCE;
my %STDDEV;
my %RANGE;
my $key__I_SALES_CODE;
my $previous_key_I_SALES_CODE = undef;
foreach my $f (1..12) { $O_VAL[$f] = undef; }
use constant _I_PRODUCT_CODE
                                => int
=> 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;
use constant _I_SALES_QTY
                                   => int.
                                             5;
use constant _I_SALES_DATE
                                   => int
                                             6;
use constant _I_LOCATION
                                   => int
                                             7;
use constant _O_SALES_CODE
                                   => int
                                             1;
use constant _O_COUNT_LOCATION
                                   => int.
                                             2;
use constant _O_COUNT_PRODUCTS
                                   => int
                                             3;
use constant _O_TOTAL_SALES_PRICE => int
                                             4;
use constant _O_TOTAL_SALES_QTY
                                   => int
                                             5;
use constant _O_MEDIAN_QTY
                                   => int
                                             6;
use constant _O_VARIANCE_QTY
                                   => int
                                             7;
use constant _O_STDDEV_QTY
                                   => int
                                             8;
use constant _O_RANGE_QTY
                                   => int
                                             9;
use constant _{O}_{RANGE}_{QTY}_{2}
                                   => int
                                            10;
use constant _O_RANGE_QTY_3
use constant _O_TEST_1
                                   => int
                                            11;
                                   => int
                                            12;
open(DATA, q{cat - | sort -t'|' -y -k 4,4 |}) || die "Cannot open input: $!";
&PrintHeader();
print STDERR '[statistics_aggr.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark start = new Benchmark;
while (<DATA>)
   print STDERR '[statistics_aggr.pql ' . localtime() . "] $. records." if ($. % VERBOSE == 0);
   chomp;
    @I_VAL = split("[|]", $_);
    $key__I_SALES_CODE = $I_VAL[_I_SALES_CODE];
    if (!defined($previous_key__I_SALES_CODE))
       $previous_key__I_SALES_CODE = $key__I_SALES_CODE;
    elsif ($previous_key__I_SALES_CODE ne $key__I_SALES_CODE)
       O_VAL[O_MEDIAN_QTY] = MEDIAN_COUNT\{O_MEDIAN_QTY\} % 2 == 0 ? & \{sub\{($_[0] + $_[1]) / 2\}\}(((sort \{$_[0] + $_[1]) / 2)\}) 
a <=> $b$ keys  ${$MEDIAN_O_TY}} )[$MEDIAN_COUNT{_O_MEDIAN_QTY}/2-1, $MEDIAN_COUNT{_O_MEDIAN_QTY}/2])[
0,1]) : (sort {$a <=> $b} keys %{$MEDIAN_O_MEDIAN_QTY}} )[(($MEDIAN_COUNT{_O_MEDIAN_QTY}+1)/2)-1];  
$O_VAL[_O_VARIANCE_QTY] = ($VARIANCE{_O_VARIANCE_QTY}{_SUM_SQUARES} / ($VARIANCE{_O_VARIANCE_QTY}{_COU
NT == 0 ? 1 : $VARIANCE{_O_VARIANCE_QTY}{_COUNT}))- (($VARIANCE{_O_VARIANCE_QTY}{_SUM} / $VARIANCE{_O_VARIANCE
E_QTY}{_COUNT}) ** 2);
       $O_VAL[_O_STDDEV_QTY] = sqrt(($STDDEV{_O_STDDEV_QTY}{_SUM_SQUARES} / ($STDDEV{_O_STDDEV_QTY}{_COUNT} =
= 0 ? 1 : $STDDEV{_O_STDDEV_QTY}{_COUNT})) - (($STDDEV_QTY}{_STDDEV_QTY}{_SUM} / $STDDEV_QTY}{_COUNT}) *
```

```
* 2));
        $O_VAL[_O_RANGE_QTY] = $RANGE{_O_RANGE_QTY}{_MAX} - $RANGE{_O_RANGE_QTY}{_MIN};
        $O_VAL[_O_RANGE_QTY_2] = $O_VAL[_O_RANGE_QTY] * 2;
$O_VAL[_O_RANGE_QTY_3] = $O_VAL[_O_RANGE_QTY] * 3;
        $0_VAL[_O_TEST_1] = $0_VAL[_O_MEDIAN_QTY] + 100;
        print
            SO VALI O SALES CODE ].
            $0 VAL[ O COUNT LOCATION],
            $0_VAL[_O_COUNT_PRODUCTS],
            $0 VAL[ O TOTAL SALES PRICE],
            $0_VAL[_O_TOTAL_SALES_QTY],
            $O_VAL[_O_MEDIAN_QTY],
            $0_VAL[_O_VARIANCE_QTY],
            $0 VAL[ O STDDEV OTY],
            $0_VAL[_O_RANGE_QTY],
            SO VAL[ O RANGE OTY 2].
            $O_VAL[_O_RANGE_QTY_3],
            $0 VAL[ O TEST 1]
        $previous_key__I_SALES_CODE = $key__I_SALES_CODE;
        @O_VAL = undef;
        %DISTINCT = undef;
        %MEDIAN = undef;
        %MEDIAN_COUNT = undef;
        %VARIANCE = undef;
        %STDDEV = undef;
        %RANGE = undef;
    }
    $O_VAL[_O_SALES_CODE] = $I_VAL[_I_SALES_CODE];
    $0_VAL[_0_COUNT_LOCATION]++ if (defined($I_VAL[_I_LOCATION]) && ++$DISTINCT{_0_COUNT_LOCATION}{qq{$I_VAL[_
I_LOCATION] } } == 1);
    $O_VAL[_O_COUNT_PRODUCTS]++ if (defined($I_VAL[_I_PRODUCT_CODE]) && ++$DISTINCT{_O_COUNT_PRODUCTS}{qq($I_V
AL[_I_PRODUCT_CODE]}} == 1);
    $0_VAL[_O_TOTAL_SALES_PRICE] += $I_VAL[_I_SALES_PRICE] unless ($I_VAL[_I_SALES_PRICE] eq '');
    $O_VAL[_O_TOTAL_SALES_QTY] += $I_VAL[_I_SALES_QTY] unless ($I_VAL[_I_SALES_QTY] eq '');
    $MEDIAN_COUNT{_O_MEDIAN_QTY}++ if (++$MEDIAN{_O_MEDIAN_QTY}{qq{$i_VAL[_i_SALES_QTY]}} == 1);
    $VARIANCE{_O_VARIANCE_QTY}{_SUM} += $I_VAL[_I_SALES_QTY];
    $VARIANCE(_O_VARIANCE_QTY)(_SUM_SQUARES) += $I_VAL[_I_SALES_QTY] ** 2;
    $VARIANCE{_O_VARIANCE_QTY}{_COUNT}++;
    $STDDEV{_O_STDDEV_QTY}{_SUM} += $I_VAL[_I_SALES_QTY];
    $STDDEV{_O_STDDEV_QTY}{_SUM_SQUARES} += $I_VAL[_I_SALES_QTY] ** 2;
    $STDDEV{_O_STDDEV_QTY}{_COUNT}++;
    $RANGE{_O_RANGE_QTY}{_MIN} = $I_VAL[_I_SALES_QTY]
        if
        (
             !defined(\$RANGE\{\_O\_RANGE\_QTY\}\{\_MIN\})
             || $1_VAL[_I_SALES_QTY] < $RANGE{_O_RANGE_QTY}{_MIN}
    $RANGE{_O_RANGE_QTY}{_MAX} = $I_VAL[_I_SALES_QTY]
       if
        (
             !defined($RANGE{_O_RANGE_QTY}{_MAX})
             || $I_VAL[_I_SALES_QTY] > $RANGE{_O_RANGE_QTY}{_MAX}
        );
} keys %{$MEDIAN_O_MEDIAN_QTY}} )[$MEDIAN_COUNT{_O_MEDIAN_QTY}/2-1, $MEDIAN_COUNT{_O_MEDIAN_QTY}/2])[0,1]) :
(sort {$a <=> $b} keys %{$MEDIAN{_O_MEDIAN_QTY}} )[(($MEDIAN_COUNT{_O_MEDIAN_QTY}+1)/2)-1];
$O_VAL[_O_VARIANCE_QTY] = ($VARIANCE{_O_VARIANCE_QTY}{_SUM_SQUARES} / ($VARIANCE{_O_VARIANCE_QTY}{_COUNT} == 0
? 1 : $VARIANCE{_O_VARIANCE_QTY}{_COUNT}))- (($VARIANCE{_O_VARIANCE_QTY}{_SUM} / $VARIANCE{_O_VARIANCE_QTY}{_
COUNT } ) ** 2);
$O_VAL[_O_STDDEV_QTY] = sqrt(($STDDEV{_O_STDDEV_QTY}{_SUM_SQUARES} / ($STDDEV{_O_STDDEV_QTY}{_COUNT} == 0 ? 1
: $STDDEV{_O_STDDEV_QTY}{_COUNT})) - (($STDDEV{_O_STDDEV_QTY}{_SUM} / $STDDEV{_O_STDDEV_QTY}{_COUNT}) ** 2));
$O_VAL[_O_RANGE_QTY] = $RANGE{_O_RANGE_QTY}{_MAX} - $RANGE{_O_RANGE_QTY}{_MIN};
$0_VAL[_O_RANGE_QTY_2] = $0_VAL[_O_RANGE_QTY] * 2;
$0_VAL[_O_RANGE_QTY_3] = $0_VAL[_O_RANGE_QTY] * 3;
$O_VAL[_O_TEST_1] = $O_VAL[_O_MEDIAN_QTY] + 100;
    $0_VAL[_O_SALES_CODE]
    $0_VAL[_O_COUNT_LOCATION],
    $0_VAL[_O_COUNT_PRODUCTS]
    $0_VAL[_O_TOTAL_SALES_PRICE],
    $0_VAL[_O_TOTAL_SALES_QTY],
    $O_VAL[_O_MEDIAN_QTY];
    $O_VAL[_O_VARIANCE_QTY],
    $O_VAL[_O_STDDEV_QTY],
    $O_VAL[_O_RANGE_QTY],
    $O_VAL[_O_RANGE_QTY_2],
    $O_VAL[_O_RANGE_QTY_3],
    $0_VAL[_0_TEST_1]
```

```
print STDERR '[statistics_aggr.pql ' . localtime() . "] $. records.";
sub PrintHeader
   local $\="\n";
   local $,="|";
   print
      'SALES_CODE',
      'COUNT_LOCATION',
      'COUNT_PRODUCTS'
      'TOTAL_SALES_PRICE',
'TOTAL_SALES_QTY',
      'MEDIAN_QTY',
      'VARIANCE_QTY',
      'STDDEV_QTY',
      'RANGE_QTY',
      'RANGE_QTY_2',
      'RANGE_QTY_3',
      'TEST_1'
      ;
}
```

7. ABOUT PEQUEL

This document was generated by Pequel.

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