examples/unpack_input.pql by Pequel

sample@youraddress.com

Unpack Input Example Script

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SCRIPT NAME

examples/unpack_input.pql

DESCRIPTION

1. PROCESS DETAILS

Input records are read from sample_fixed.dat. 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 records are **grouped** by the input field **LOCATION** (string).

1.1 LOCATION

Output Field

Description

Set to input field LOCATION

1.2 PRODUCT_COUNT

Output Field

Description

Distinct aggregation on input field PRODUCT CODE.

1.3 MIN SALES QTY

Output Field

Description

Min aggregation on input field SALES_QTY.

1.4 MAX_SALES_QTY

Output Field

Description

Max aggregation on input field SALES_QTY.

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/unpack_input.pql

2.5 input file

input data filename: sample_fixed.dat

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.: Unpack Input Example Script

2.11 doc_email

document email entry.: sample@youraddress.com

2.12 doc version

document version for pequel script.: 2.3

2.13 discard header

Input file has header record - must be discarded .: 1

2.14 unpack_input

Unpack input data stream: 1

2.15 input_pack_fmt

Pack format for input data stream: [A3/Z*]

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3. TABLES

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

5. EXAMPLES/UNPACK_INPUT.PQL

options

```
prefix(examples)
pequeldoc(pdf)
detail(1)
script_name(examples/unpack_input.pql)
input_file(sample_fixed.dat)
header(1)
optimize(1)
hash(1)
nulls(1)
doc_title(Unpack Input Example Script)
doc_email(sample@youraddress.com)
doc_version(2.3)
discard_header(1)
unpack_input(1)
input_pack_fmt([A3/Z*])
```

description

input section

LOCATION
PRODUCT_CODE
SALES_QTY

group by

LOCATION string

output section

string LOCATION LOCATION
numeric PRODUCT_COUNT distinct PRODUCT_CODE
decimal MIN_SALES_QTY min SALES_QTY
decimal MAX_SALES_QTY max SALES_QTY

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 : unpack_input.pql
#Created On : Wed Nov 16 14:22:40 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/unpack_input.pql) script filename
#input_file(sample_fixed.dat) input data 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(Unpack Input Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
#doc_version(2.3) document version for pequel script.
#discard_header(1) Input file has header record - must be discarded.
#unpack_input(1) Unpack input data stream
\#input\_pack\_fmt([A3/Z^*]) Pack format for input data stream
use strict;
=> int
                                                                                                  J;
1;
                                                                                                    0;
use constant \_O\_LOCATION
                                                                             => int
                                                                                                      1;
use constant _O_PRODUCT_COUNT
                                                                           => int
                                                                                                      2;
use constant _O_MIN_SALES_QTY
                                                                             => int.
                                                                                                      3;
use constant _O_MAX_SALES_QTY => int
                                                                                                      4;
local $\= "\n";
local $,="|";
print STDERR '[examples/unpack_input.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST ICELL => int 2;
use constant INPUT_PACK_FMT => 'A3/Z*' x (LAST_ICELL+1);
my @I VAL;
my %O VAL;
my $key;
my $ inprecs=0;
my %DISTINCT;
open(DATA, q{examples/sample_fixed.dat})|| die "Cannot open examples/sample_fixed.dat: $!";
&PrintHeader();
print STDERR '[examples/unpack_input.pql ' . localtime() . "] Start";
use Benchmark;
my Sbenchmark start = new Benchmark;
my $discard header = <DATA>;
while (<DATA>)
          ++$ inprecs;
         print STDERR '[examples/unpack_input.pql ' . localtime() . "] $_inprecs records." if ($_inprecs % VERBOSE
== 0);
         chomp;
          @I VAL = unpack(INPUT PACK FMT, $ );
          $key = ( $I_VAL[_I_LOCATION] );
          $0_VAL{$key}{_O_LOCATION} = $I_VAL[_I_LOCATION];
         $0_VAL{$key}{_O_PRODUCT_COUNT}++
                   \text{if } (\texttt{defined(\$i\_VAL[\_i\_PRODUCT\_CODE]}) \text{ & } ++\texttt{$DISTINCT\{\$key}\{\_o\_PRODUCT\_COUNT\}\{qq\{\$i\_VAL[\_i\_PRODUCT\_CODE]\}) \} } \\ \text{ } (\texttt{defined(\$i\_VAL[\_i\_PRODUCT\_CODE]}) \text{ } (\texttt{defined(\$i\_VAL[\_i\_PRODUCT\_CODE]})) ] \\ \text{ } (\texttt{defined(\$i\_VAL[\_i\_PRODUCT\_CODE]})) \\ \text{ } (\texttt{defined(\$i\_PRODUCT\_CODE]}) \\ \text{ } (\texttt{defined(\$i\_PRODUCT\_CODE]})) \\ \text{ } (\texttt{defined(\$i\_PRODUCT\_CODE]}) \\ \text{ } (\texttt{defined(\$i\_PRODUCT\_CODE]})) \\ \text{ } (\texttt{defined(\$i\_PRODUCT\_CODE]}) \\ \text{ } (\texttt{defined(\$i\_PRODU
}} == 1);
          $O_VAL{$key}{_O_MIN_SALES_QTY} = $I_VAL[_I_SALES_QTY]
                    if \ (!defined(\$O_VAL\{\$key}\{_O_MIN_SALES_QTY\}) \ |\ \| \$I_VAL[_I_SALES_QTY] \ < \$O_VAL\{\$key}\{_O_MIN_SALES_QTY\}) \\ |\ \| \$I_VAL[_I_SALES_QTY] \ |\ \| \$I_VAL[_I_SALES_QTY] 
         $O_VAL{$key}{_O_MAX_SALES_QTY} = $I_VAL[_I_SALES_QTY]
                   if (!defined($O_VAL{$key}{_O_MAX_SALES_QTY}) || $I_VAL[_I_SALES_QTY] > $O_VAL{$key}{_O_MAX_SALES_QTY})
}
foreach $key (sort keys %O_VAL)
         print STDOUT
                   $0_VAL{$key}{_O_LOCATION},
                   $0_VAL{$key}{_O_PRODUCT_COUNT},
                   $O_VAL{$key}{_O_MIN_SALES_QTY},
                   $0_VAL{$key}{_O_MAX_SALES_QTY}
```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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