examples/local_table.pql

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Local Table Example Script

2.2

Table of Contents
Local Table Example Script

SCRIPT NAME 1
DESCRIPTION 1
1. PROCESS DETAILS 1
1.1 LOCATION 1
Description 1
1.2 DESCRIPTION 1
Description 1
Derived Input Field Evaluation 1
1.3 NUM_PRODUCTS 1
Description 1
1.4 AVG_COST_PRICE 1
Description 1
2. CONFIGURATION SETTINGS 2
2.1 prefix 2
2.2 pequeldoc 2
2.3 detail 2
2.4 script_name 2
2.5 header 2
2.6 optimize 2
2.7 doc_title 2
2.8 doc_email 2
2.9 doc_version 2
3. TABLES 3
3.1 LOC_DESCRIPT 3
Data 3
4. TABLE INFORMATION SUMMARY 4
4.1 Table List Sorted By Table Name 4
5. EXAMPLES/LOCAL_TABLE.PQL 5
options 5
description 5
init table 5
input section 5
sort by 5
group by 5
output section 5
6. PEQUEL GENERATED PROGRAM 6
7. ABOUT PEQUEL 8
COPYRIGHT 8

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 constist 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_DESCRIPT is a local table. Each line in the
'init table' section contains an entry in this table. Each entry constist 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_DESCRIPT NSW New South Wales
LOC_DESCRIPT WA Western Australia
LOC_DESCRIPT SYD Sydney
LOC_DESCRIPT MEL Melbourne
LOC_DESCRIPT SA South Australia
LOC_DESCRIPT NT Northern Territory
LOC_DESCRIPT QLD Queensland
LOC_DESCRIPT VIC Victoria
LOC_DESCRIPT PER Perth
LOC_DESCRIPT ALIC Alice Springs
```

input section

```
PRODUCT_CODE
COST_PRICE
DESCRIPTION
SALES_CODE
SALES_PRICE
SALES_QTY
SALES_DATE
LOCATION
LDESCRIPT => %LOC_DESCRIPT(LOCATION)
```

sort by

```
LOCATION string
```

group by

```
LOCATION string
```

output section

```
string    LOCATION       LOCATION
string    DESCRIPTION    LDESCRIPT
numeric   NUM_PRODUCTS   distinct PRODUCT_CODE
numeric   AVG_COST_PRICE avg COST_PRICE
```

6. PEQUEL GENERATED PROGRAM

```
#!/usr/bin/perl
#-+-+-+
```

```
            $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() . "] $_inprecs 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)]
}";
#-+-+-+
```

7. ABOUT PEQUEL

This document was generated by Pequel.

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

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