



sqlite_table.pql

by *Pequel*

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Sqlite Tables Example Script

2.2

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SCRIPT NAME

sqlite_table.pql

DESCRIPTION

Demonstrates the use of external Sqlite tables.

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

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

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

1.1 **PRODUCT_CODE**

Output Field

Description

Set to input field **PRODUCT_CODE**

1.2 **RECORD_COUNT**

Output Field

Description

Count aggregation.

1.3 **SALES_QTY_SAMPLE1**

Output Field

Description

Sum aggregation on input field **SALES_QTY**.

Aggregation condition

exists %SAMPLE1(PRODUCT_CODE);

1.4 **S1_DESCRIPTION**

Output Field

Description

Set to input field **S1_DESCRIPTION**

Derived Input Field Evaluation

=> %SAMPLE1 (PRODUCT_CODE) ->DESCRIPTION

1.5 **S1_LOCATION**

Output Field

Description

Set to input field **S1_LOCATION**

Derived Input Field Evaluation

=> %SAMPLE1 (PRODUCT_CODE) ->LOCATION

1.6 SALES_QTY_SAMPLE2

Output Field

Description

Sum aggregation on input field **SALES_QTY**.

Aggregation condition

exists %SAMPLE2(PRODUCT_CODE);

1.7 S2_DESCRIPTION

Output Field

Description

Set to input field **S2_DESCRIPTION**

Derived Input Field Evaluation

=> %SAMPLE2 (PRODUCT_CODE) ->DESCRIPTION

1.8 S2_LOCATION

Output Field

Description

Set to input field **S2_LOCATION**

Derived Input Field Evaluation

=> %SAMPLE2 (PRODUCT_CODE) ->LOCATION

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: sqlite_table.pql

2.4 *header*

write header record to output.: 1

2.5 *optimize*

optimize generated code.: 1

2.6 *doc_title*

document title.: Sqlite Tables Example Script

2.7 *doc_email*

document email entry.: sample@youraddress.com

2.8 *doc_version*

document version for pequel script.: 2.2

2.9 *inline_cc*

Inline: CC: CC

2.10 *inline_force_build*

Inline: force_build: 1

2.11 *inline_optimize*

Inline: OPTIMIZE: -xO5 -xinline=%auto

2.12 *inline_ccflags*

Inline: CCFLAGS: -xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64

3. TABLES

3.1 *SAMPLE1*

Table Type: *sqlite*

Data Source Filename: *sample.data*

Key Field Number: *1*

Key Field Type: *VARCHAR*

Database Filename: */_TABLE_SAMPLE1.sqlite*

3.1.1 DESCRIPTION = 3

3.1.2 LOCATION = 8

3.2 *SAMPLE2*

Table Type: *sqlite merge*

Data Source Filename: *sample.data*

Key Field Number: *1*

Key Field Type: *VARCHAR*

Database Filename: */_TABLE_SAMPLE2.sqlite*

3.2.1 DESCRIPTION = 3

3.2.2 LOCATION = 8

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

SAMPLE1 — 1 (*sqlite*)

SAMPLE2 — 2 (*sqlite merge*)

5. SQLITE_TABLE.PQL

options

```
pequeldoc(pdf)
detail(1)
script_name(sqlite_table.pql)
header(1)
optimize(1)
doc_title(Sqlite Tables Example Script)
doc_email(sample@youraddress.com)
doc_version(2.2)
inline_cc(CC)
inline_force_build(1)
inline_optimize(-xO5 -xinline=%auto)
inline_ccflags(-xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64)
```

description

Demonstrates the use of external Sqlite tables.

load table sqlite

```
SAMPLE1 /* Table Name */ \
sample.data /* Data Source Filename */ \
1 /* Key Column Number */ \
VARCHAR /* Key Type */ \
DESCRIPTION = 3 \
LOCATION = 8
```

load table sqlite merge

```
SAMPLE2 /* Table Name */ \
sample.data /* Data Source Filename */ \
1 /* Key Column Number */ \
VARCHAR /* Key Type */ \
DESCRIPTION = 3 \
LOCATION = 8
```

sort by

PRODUCT_CODE string

group by

PRODUCT_CODE string

input section

```
PRODUCT_CODE
COST_PRICE
DESCRIPTION
SALES_CODE
SALES_PRICE
SALES_QTY
SALES_DATE
LOCATION
S1_DESCRIPTION => %SAMPLE1(PRODUCT_CODE)->DESCRIPTION

S1_LOCATION => %SAMPLE1(PRODUCT_CODE)->LOCATION

S2_DESCRIPTION => %SAMPLE2(PRODUCT_CODE)->DESCRIPTION

S2_LOCATION => %SAMPLE2(PRODUCT_CODE)->LOCATION
```

output section

string	PRODUCT_CODE	PRODUCT_CODE
numeric	RECORD_COUNT	count *
numeric	SALES_QTY_SAMPLE1	sum SALES_QTY where exists %SAMPLE1(PRODUCT_CODE)
string	S1_DESCRIPTION	S1_DESCRIPTION
string	S1_LOCATION	S1_LOCATION
numeric	SALES_QTY_SAMPLE2	sum SALES_QTY where exists %SAMPLE2(PRODUCT_CODE)
string	S2_DESCRIPTION	S2_DESCRIPTION
string	S2_LOCATION	S2_LOCATION

6. PEQUEL GENERATED PROGRAM

```
# vim: syntax=perl ts=4 sw=4
#-----
#Generated By: pequel Version 2.3-2, Build: Thursday September 29 19:56:03 BST 2005
#           : https://sourceforge.net/projects/pequel/
#Script Name : sqlite_table.pql
#Created On  : Thu Sep 29 14:05:33 2005
#For         :
#-----
#Options:
#pequeldoc(pdf) generate pod / pdf pequel script Reference Guide.
#detail(1) Include Pequel Generated Program chapter in Pequeldoc
#script_name(sqlite_table.pql) script filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
#doc_title(Sqlite Tables Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
#doc_version(2.2) document version for pequel script.
#inline_cc(CC) Inline: CC
#inline_force_build(1) Inline: force_build
#inline_optimize(-xO5 -xinline=%auto) Inline: OPTIMIZE
#inline_ccflags(-xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64) Inline: CCFLAGS
#-----
use strict;
use Fcntl;
local $\\="\\n"; local $,="|";
print STDERR "[sqlite_table.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 11;
my @I_VAL;
my @O_VAL;
my $key__I_PRODUCT_CODE;
my $previous_key__I_PRODUCT_CODE = undef;
foreach my $f (1..8) { $O_VAL[$f] = undef; }
&LoadTableSAMPLE2; # Create database for SAMPLE2
&LoadTableSAMPLE1; # Create database for SAMPLE1
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_S1_DESCRIPTION      => int 8;
use constant __I_S1_LOCATION         => int 9;
use constant __I_S2_DESCRIPTION      => int 10;
use constant __I_S2_LOCATION         => int 11;
use constant __O_PRODUCT_CODE        => int 1;
use constant __O_RECORD_COUNT        => int 2;
use constant __O_SALES_QTY_SAMPLE1    => int 3;
use constant __O_S1_DESCRIPTION       => int 4;
use constant __O_S1_LOCATION          => int 5;
use constant __O_SALES_QTY_SAMPLE2    => int 6;
use constant __O_S2_DESCRIPTION       => int 7;
use constant __O_S2_LOCATION          => int 8;
use constant __T_SAMPLE2_FLD_DESCRIPTION => int 0;
use constant __T_SAMPLE2_FLD_LOCATION  => int 1;
use constant __T_SAMPLE1_FLD_DESCRIPTION => int 0;
use constant __T_SAMPLE1_FLD_LOCATION  => int 1;
use constant __I_SAMPLE1_PRODUCT_CODE_FLD_KEY    => int 12;
use constant __I_SAMPLE1_PRODUCT_CODE_FLD_DESCRIPTION => int 13;
use constant __I_SAMPLE1_PRODUCT_CODE_FLD_LOCATION => int 14;
use constant __I_SAMPLE2_PRODUCT_CODE_FLD_KEY    => int 15;
use constant __I_SAMPLE2_PRODUCT_CODE_FLD_DESCRIPTION => int 16;
use constant __I_SAMPLE2_PRODUCT_CODE_FLD_LOCATION => int 17;
open(DATA, q{cat - | sort -t'|' -y -k 1,1 |}) || die "Cannot open input: $!";
my $fd = fileno(DATA);
OpenSortStream($fd);
&PrintHeader();
print STDERR "[sqlite_table.pql ' . localtime() . "] Start";
use Benchmark;
my $benchmark_start = new Benchmark;
SqliteConnect($fd);
print STDERR "[sqlite_table.pql ' . localtime() . "] Tables opened.";
my $i;
while (readsplit(\\@I_VAL))
{
    ++$i;
    print STDERR "[sqlite_table.pql ' . localtime() . "] $i records." if ($i % VERBOSE == 0);
    $key__I_PRODUCT_CODE = $I_VAL[__I_PRODUCT_CODE];
```

29 September 2005 14:05

```

my %flist =
(
    key => 'VARCHAR NOT NULL PRIMARY KEY',
    description => 'varchar',
    location => 'varchar'
);

$dbh->do("CREATE TABLE SAMPLE1 ( @[ join(',', map(qq{$_ $flist{$_}}, @flist)) ] )");
$dbh->commit;
print STDERR '[sqlite_table.pql ' . localtime() . "] Loading sqlite (v$sqlite) table SAMPLE1 from samp
le.data...";
open(SAMPLE1, "sort -u -t'|' -k 1 sample.data |");
$dbh->do("BEGIN;");
my $sth = $dbh->prepare("INSERT INTO SAMPLE1 ( @[ join(',', @flist) ] ) VALUES( @[ join(',', map(
'?', @flist) ] ) )");
while (<SAMPLE1>)
{
    chomp;
    my @flds = split("[|]", $_, -1);
    $sth->execute($flds[0], @flds[ 2,7 ]);
    print STDERR '[sqlite_table.pql ' . localtime() . "] Table SAMPLE1 loaded $. records..." if ($. %
100000 == 0);
}

close(SAMPLE1);
$sth->finish;
$dbh->commit;
}

my $sth = $dbh->prepare("SELECT count(1) FROM SAMPLE1");
$sth->execute;
my $loaded = $sth->fetchrow_array;
$sth->finish;
$dbh->disconnect;
print STDERR '[sqlite_table.pql ' . localtime() . "] $loaded records for table SAMPLE1.";
}

##### Table SAMPLE2 --> Type :Pequel::Type::Table::Sqlite::Merge #####
sub LoadTableSAMPLE2
{
    my $_TABLE_SAMPLE2;
    print STDERR '[sqlite_table.pql ' . localtime() . "] Loading (merge) table SAMPLE2 from sample.data...";
    my $exists = (-e "/_TABLE_SAMPLE2.sqlt");
    use DBI;
    my $dbh = DBI->connect
    (
        "dbi:SQLite:dbname=/_TABLE_SAMPLE2.sqlt", '', '',
        { RowCacheSize => 5000, RaiseError => 0, AutoCommit => 0 }
    )

    or die "Cannot open /_TABLE_SAMPLE2.sqlt:$!";
    $dbh->{PrintError} = 0;
    $dbh->do("PRAGMA synchronous=OFF");
    $dbh->do("PRAGMA count_changes=OFF");
    $dbh->do("PRAGMA full_column_names=OFF");
    my $sqlite = $dbh->{sqlite_version};
    if (!$exists)
    {
        print STDERR '[sqlite_table.pql ' . localtime() . "] Creating table SAMPLE2 from sample.data...";
        my @flist =
        (
            'key',
            'description',
            'location'
        );
        my %flist =
        (
            key => 'VARCHAR NOT NULL PRIMARY KEY',
            description => 'varchar',
            location => 'varchar'
        );

        $dbh->do("CREATE TABLE SAMPLE2 ( @[ join(',', map(qq{$_ $flist{$_}}, @flist)) ] )");
        $dbh->commit;
        print STDERR '[sqlite_table.pql ' . localtime() . "] Loading sqlite (v$sqlite) table SAMPLE2 from samp
le.data...";
        open(SAMPLE2, "sort -u -t'|' -k 1 sample.data |");
        $dbh->do("BEGIN;");
        my $sth = $dbh->prepare("INSERT INTO SAMPLE2 ( @[ join(',', @flist) ] ) VALUES( @[ join(',', map(
'?', @flist) ] ) )");
        while (<SAMPLE2>)
        {
            chomp;
            my @flds = split("[|]", $_, -1);

```

```

        $sth->execute($flds[0], @flds[ 2,7 ]);
        print STDERR '[sqlite_table.pql ' . localtime() . "] Table SAMPLE2 loaded $. records..." if ($. %
100000 == 0);
    }

    close(SAMPLE2);
    $sth->finish;
    $dbh->commit;
}

my $sth = $dbh->prepare("SELECT count(1) FROM SAMPLE2");
$sth->execute;
my $loaded = $sth->fetchrow_array;
$sth->finish;
$dbh->disconnect;
print STDERR '[sqlite_table.pql ' . localtime() . "] $loaded records for table SAMPLE2.";
}

sub PrintHeader
{
    local $\="\n";
    local $,="|";
    print
        'PRODUCT_CODE',
        'RECORD_COUNT',
        'SALES_QTY_SAMPLE1',
        'S1_DESCRIPTION',
        'S1_LOCATION',
        'SALES_QTY_SAMPLE2',
        'S2_DESCRIPTION',
        'S2_LOCATION'
        ;
}

#-----
#***** I N L I N E *****
use Inline
    C => Config =>
        NAME => 'sqlite_table',
        CC => 'CC',
        CLEAN_AFTER_BUILD => '1',
        CLEAN_BUILD_AREA => '1',
        PRINT_INFO => '0',
        BUILD_NOISY => '0',
        BUILD_TIMERS => '0',
        FORCE_BUILD => '1',
        LIBS => ' -L/bld/.libs -lpthread -lexc -lsqlite',
        INC => ' -I/bld -I/src',
        CFLAGS => '-xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64 -DNDEBUG=1',
        OPTIMIZE => '-xO5 -xinline=%auto '
        ;

use Inline C => q~

#include "sqlite.h"
#include "sqliteInt.h"

#define GFMAXPIPBUFFER      3072
#define GFMAXPIPFLDS       13
#define GFCACHER ECS       100

#define _I_PRODUCT_CODE      0
#define _I_COST_PRICE        1
#define _I_DESCRIPTION        2
#define _I_SALES_CODE        3
#define _I_SALES_PRICE        4
#define _I_SALES_QTY         5
#define _I_SALES_DATE        6
#define _I_LOCATION          7
#define _I_S1_DESCRIPTION     8
#define _I_S1_LOCATION        9
#define _I_S2_DESCRIPTION    10
#define _I_S2_LOCATION       11

#define _I_SAMPLE1_PRODUCT_CODE_FLD_KEY      12
#define _I_SAMPLE1_PRODUCT_CODE_FLD_DESCRIPTION 13
#define _I_SAMPLE1_PRODUCT_CODE_FLD_LOCATION 14
#define _I_SAMPLE2_PRODUCT_CODE_FLD_KEY      15
#define _I_SAMPLE2_PRODUCT_CODE_FLD_DESCRIPTION 16
#define _I_SAMPLE2_PRODUCT_CODE_FLD_LOCATION 17

static sqlite *db_SAMPLE2 = 0;
sqlite_vm *ppVm_SAMPLE2_PRODUCT_CODE;

static sqlite *db_SAMPLE1 = 0;

```

```

sqlite_vm *ppVm_SAMPLE1_PRODUCT_CODE;

int sqlite_open_all();
int sqlite_pragma_all();
int sqlite_prep_all();

static const char *fields[GFCACHER ECS][GFMAXPIPFLDS];
static FILE *fstream = (FILE*)0;

sqlite *sqlite_open_db (char *DbFilename)
{
    sqlite *db = 0;

    if ( !sqliteOsFileExists(DbFilename) )
    {
        fprintf(stderr,"Database %s does not exist\n", DbFilename);
        return 0;
    }
    char *zErrMsg = 0;
    if ((db = sqlite_open(DbFilename, 0666, &zErrMsg)) == 0)
    {
        if ((db = sqlite_open(DbFilename, 0444, &zErrMsg)) == 0)
        {
            if ( zErrMsg )
            {
                fprintf(stderr,"Unable to open database %s: %s\n", DbFilename, zErrMsg);
                freemem(zErrMsg);
            }
            else
            {
                fprintf(stderr,"Unable to open database %s\n", DbFilename);
            }
            return 0;
        }
        else
        {
            fprintf(stderr,"Database %s opened READ ONLY!\n", DbFilename);
        }
    }
    return db;
}

int SqliteConnect (int fd)
{
    sqlite_open_all();
    sqlite_pragma_all();
    sqlite_prep_all();
    fstream = fdopen(fd, "r");
    return 1;
}

int sqlite_open_all ()
{
    char *pzErrMsg = 0;
    //-----
    //+++++ Table SAMPLE2 --> Type :Pequel::Type::Table::Sqlite::Merge +++++
    if ((db_SAMPLE2 = sqlite_open_db("/_TABLE_SAMPLE2.sq1t")) == 0)
    {
        return 0;
    }

    //-----
    //+++++ Table SAMPLE1 --> Type :Pequel::Type::Table::Sqlite::Merge +++++
    if ((db_SAMPLE1 = sqlite_open_db("/_TABLE_SAMPLE1.sq1t")) == 0)
    {
        return 0;
    }

    return 1;
}

int sqlite_pragma_all ()
{
    char *pzErrMsg = 0;
    register int ret;
    //+++++ Table SAMPLE2 --> Type :Pequel::Type::Table::Sqlite::Merge +++++
    if ((ret = sqlite_exec(db_SAMPLE2, "PRAGMA count_changes = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
    {
        fprintf(stderr, "*** db_SAMPLE2: Cannot execute PRAGMA count_changes=OFF (%d-%s)\n", ret, pzErrMsg);
        freemem(pzErrMsg);
        return 0;
    }

    if ((ret = sqlite_exec(db_SAMPLE2, "PRAGMA empty_result_callbacks = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)

```

```

    {
        fprintf(stderr, "*** db_SAMPLE2: Cannot execute PRAGMA empty_result_callbacks=OFF (%d-%s)\n", ret, pzErrMsg);
    }
    freemem(pzErrMsg);
    return 0;
}

if ((ret = sqlite_exec(db_SAMPLE2, "PRAGMA full_column_names = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE2: Cannot execute PRAGMA full_column_names=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

if ((ret = sqlite_exec(db_SAMPLE2, "PRAGMA show_datatypes = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE2: Cannot execute PRAGMA show_datatypes=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

if ((ret = sqlite_exec(db_SAMPLE2, "PRAGMA synchronous = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE2: Cannot execute PRAGMA synchronous=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

//+++++ Table SAMPLE1 --> Type :Pequel::Type::Table::Sqlite +++++
if ((ret = sqlite_exec(db_SAMPLE1, "PRAGMA count_changes = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE1: Cannot execute PRAGMA count_changes=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

if ((ret = sqlite_exec(db_SAMPLE1, "PRAGMA empty_result_callbacks = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE1: Cannot execute PRAGMA empty_result_callbacks=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

if ((ret = sqlite_exec(db_SAMPLE1, "PRAGMA full_column_names = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE1: Cannot execute PRAGMA full_column_names=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

if ((ret = sqlite_exec(db_SAMPLE1, "PRAGMA show_datatypes = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE1: Cannot execute PRAGMA show_datatypes=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

if ((ret = sqlite_exec(db_SAMPLE1, "PRAGMA synchronous = OFF;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE1: Cannot execute PRAGMA synchronous=OFF (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

return 1;
}

int sqlite_prep_all ()
{
    char *pzErrMsg = 0;
    char sql[4096];
    register int ret;
    //+++++ Table SAMPLE2 --> Type :Pequel::Type::Table::Sqlite::Merge +++++
    if ((ret = sqlite_exec(db_SAMPLE2, "BEGIN TRANSACTION ON CONFLICT ABORT;", 0, 0, &pzErrMsg)) != SQLITE_OK)
    {
        fprintf(stderr, "*** db_SAMPLE2: Cannot execute BEGIN statement (%d-%s)\n", ret, pzErrMsg);
        freemem(pzErrMsg);
        return 0;
    }

    sprintf(sql, "select key, description, location from SAMPLE2 order by key");
    if (sqlite_compile(db_SAMPLE2, sql, 0, &ppVm_SAMPLE2_PRODUCT_CODE, &pzErrMsg) != SQLITE_OK)

```



```

    {
        fprintf(stderr, "*** Error compiling sql for db_SAMPLE2->SAMPLE2_PRODUCT_CODE (%s)\n", pzErrMsg);
        return 0;
    }

//+++++ Table SAMPLE1 --> Type :Pequel::Type::Table::Sqlite +++++
if ((ret = sqlite_exec(db_SAMPLE1, "BEGIN TRANSACTION ON CONFLICT ABORT;", 0, 0, &pzErrMsg)) != SQLITE_OK)
{
    fprintf(stderr, "*** db_SAMPLE1: Cannot execute BEGIN statement (%d-%s)\n", ret, pzErrMsg);
    freemem(pzErrMsg);
    return 0;
}

sprintf(sql, "select key, description, location from SAMPLE1 where key = ?");
if (sqlite_compile(db_SAMPLE1, sql, 0, &ppVm_SAMPLE1_PRODUCT_CODE, &pzErrMsg) != SQLITE_OK)
{
    fprintf(stderr, "*** Error compiling sql for db_SAMPLE1->SAMPLE1_PRODUCT_CODE (%s)\n", pzErrMsg);
    return 0;
}

return 1;
}

void SqliteDisconnect ()
{
    sqlite_exec(db_SAMPLE2, "END;", 0, 0, 0);sqlite_close(db_SAMPLE2);
    sqlite_exec(db_SAMPLE1, "END;", 0, 0, 0);sqlite_close(db_SAMPLE1);
}

int readcache ()
{
    register char *p;
    register int recs;
    register int f;
    static char inp[GFCACHERECS][GFMAXPIPBUFFER];
    static eof=0;

    if (eof) return 0;
    recs = 0;
    while (recs < GFCACHERECS)
    {
        f=0;
        if (!fgets(inp[recs], GFMAXPIPBUFFER, fstream) ) { eof=1; return recs; }
        inp[recs][strlen(inp[recs])-1] = '\0';
        memset(fields[recs], 0, sizeof(fields[recs]));
        p = inp[recs];
        fields[recs][0] = p;
        while (*p)
        {
            if (*p == '|')
            {
                fields[recs][++f] = p + 1;
                *p = '\0';
            }
            p++;
        }
        recs++;
    }
    return recs;
}

int readsplit (SV* I_VAL_ref)
{
    char sql[4096];
    int ret;
    char *pzErrMsg = 0;
    static int current_cache_maxrecs=GFCACHERECS;
    static int current_cache_rec=GFCACHERECS;
    if (++current_cache_rec >= current_cache_maxrecs)
    {
        if (current_cache_maxrecs < GFCACHERECS) return 0;
        if ((current_cache_maxrecs = readcache()) == 0) return 0;
        current_cache_rec = 0;
    }

    register AV* I_VAL = (AV*)SvRV(I_VAL_ref);
    if (!SvROK(I_VAL_ref)) croak("I_VAL_ref is not a reference");
    av_clear(I_VAL);
    register int f=0;
    for (f=0; f < GFMAXPIPFIDS; f++)
    {
        if (fields[current_cache_rec][f] == 0) av_store(I_VAL, f, newSVpvn("", 0));
        else av_store(I_VAL, f, newSVpvn(fields[current_cache_rec][f], strlen(fields[current_cache_rec][f])));
    }
}

```

```

    int pN;
    static const char **pazValue_SAMPLE2_PRODUCT_CODE;
    static int last_step_SAMPLE2_PRODUCT_CODE = SQLITE_ROW;
    static const char **pazValue_SAMPLE1_PRODUCT_CODE;
    /***** Table SAMPLE1 (PRODUCT_CODE) --> Type :Pequel::Type::Table::Sqlite *****/
    sqlite_reset(ppVm_SAMPLE1_PRODUCT_CODE, 0);
    if ((ret = sqlite_bind(ppVm_SAMPLE1_PRODUCT_CODE, 1, fields[current_cache_rec][_I_PRODUCT_CODE], -1, 0)) !=
    = SQLITE_OK)
    {
        fprintf(stderr, "*** Error binding to db_SAMPLE1->SAMPLE1_PRODUCT_CODE (%s)\n", sqlite_error_string(ret
    ));
        croak("exiting");
    }

    if (sqlite_step(ppVm_SAMPLE1_PRODUCT_CODE, &pN, &pazValue_SAMPLE1_PRODUCT_CODE, 0) == SQLITE_ROW)
    {
        av_store(I_VAL, _I_SAMPLE1_PRODUCT_CODE_FLD_KEY, newSVpvn(pazValue_SAMPLE1_PRODUCT_CODE[0], strlen(paz
    Value_SAMPLE1_PRODUCT_CODE[0])));
        av_store(I_VAL, _I_SAMPLE1_PRODUCT_CODE_FLD_DESCRIPTION, newSVpvn(pazValue_SAMPLE1_PRODUCT_CODE[1], st
    rlen(pazValue_SAMPLE1_PRODUCT_CODE[1])));
        av_store(I_VAL, _I_SAMPLE1_PRODUCT_CODE_FLD_LOCATION, newSVpvn(pazValue_SAMPLE1_PRODUCT_CODE[2], strle
    n(pazValue_SAMPLE1_PRODUCT_CODE[2])));
    }

    /***** Table SAMPLE2 (PRODUCT_CODE) --> Type :Pequel::Type::Table::Sqlite::Merge *****/
    if (pazValue_SAMPLE2_PRODUCT_CODE == 0 && last_step_SAMPLE2_PRODUCT_CODE == SQLITE_ROW)
    {
        last_step_SAMPLE2_PRODUCT_CODE = sqlite_step(ppVm_SAMPLE2_PRODUCT_CODE, &pN, &pazValue_SAMPLE2_PRODUCT
    _CODE, 0);
    }

    while
    (
        last_step_SAMPLE2_PRODUCT_CODE == SQLITE_ROW
        && pazValue_SAMPLE2_PRODUCT_CODE != 0
        && strcmp(fields[current_cache_rec][_I_PRODUCT_CODE], pazValue_SAMPLE2_PRODUCT_CODE[0]) > 0
        && (last_step_SAMPLE2_PRODUCT_CODE = sqlite_step(ppVm_SAMPLE2_PRODUCT_CODE, &pN, &pazValue_SAMPLE2_PRO
    DUCT_CODE, 0)) == SQLITE_ROW
    )
    {
        if (pazValue_SAMPLE2_PRODUCT_CODE == 0) break;
        if (strcmp(fields[current_cache_rec][_I_PRODUCT_CODE], pazValue_SAMPLE2_PRODUCT_CODE[0]) <= 0) break;
    }

    if (pazValue_SAMPLE2_PRODUCT_CODE != 0 && strcmp(fields[current_cache_rec][_I_PRODUCT_CODE], pazValue_SAMP
    LE2_PRODUCT_CODE[0]) == 0)
    {
        av_store(I_VAL, _I_SAMPLE2_PRODUCT_CODE_FLD_KEY, newSVpvn(pazValue_SAMPLE2_PRODUCT_CODE[0], strlen(paz
    Value_SAMPLE2_PRODUCT_CODE[0])));
        av_store(I_VAL, _I_SAMPLE2_PRODUCT_CODE_FLD_DESCRIPTION, newSVpvn(pazValue_SAMPLE2_PRODUCT_CODE[1], st
    rlen(pazValue_SAMPLE2_PRODUCT_CODE[1])));
        av_store(I_VAL, _I_SAMPLE2_PRODUCT_CODE_FLD_LOCATION, newSVpvn(pazValue_SAMPLE2_PRODUCT_CODE[2], strle
    n(pazValue_SAMPLE2_PRODUCT_CODE[2])));
    }

    return 1;
}

int OpenSortStream (int fd)
{
    if ((fstream = fdopen(fd, "r")) == (FILE*)0)
        croak("sqlite_table.pql:Unable to open input file stream.");
    return 1;
}

~/; #End of Inline-C Code

```

7. ABOUT PEQUEL

This document was generated by Pequel.

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