

RE: Insert help...

Source: <http://coding.derkeiler.com/Archive/Perl/perl.dbi.users/2005-03/0109.html>

From: Scott V \ Nipp (sn4265_at_sbc.com)

Date: 03/15/05

Date: Tue, 15 Mar 2005 16:25:43 -0600

To: "Reidy, Ron" <Ron.Reidy@arraybiopharma.com>, <dbi-users@perl.org>

OK... I have been able to solve this problem, and it was no big deal. However, the problem I am currently facing is really hosing me up... Basically, a "NULL" field is getting converted to a 0 in the database. This causes a comparison of the same file and the database to yield a lot of differences. Please help. I think this has got to be related to the INSERT. The table column is setup as 'smallint' allowing NULLS with the default value set to NULL. This column however is getting a '0' if the input file is empty for that field.

Here is the pertinent code...

<... Snipped ...>

```
my $sth = $dbh->prepare("INSERT INTO AllMid_Data VALUES(?".("," x 21).")")
```

```
    or print "Error with INSERT _prepare_ $DBI::errstr\n";
```

<... Snipped ...>

```
    $sth->bind_param(1, undef);
```

```
    $sth->bind_param($_+2, $data[$_]) foreach 0..20;
```

```
    $sth->execute() or print "Data insert failed.";
```

<... Remainder snipped ...>

Please help as I am almost there. Thanks in advance.

Scott Nipp

Phone: (214) 858-1289

E-mail: sn4265@sbc.com

Web: <http://ldsa.sbclld.sbc.com>

-----Original Message-----

From: Reidy, Ron [<mailto:Ron.Reidy@arraybiopharma.com>]

Sent: Tuesday, March 15, 2005 1:34 PM

To: NIPP, SCOTT V (SBCSI); dbi-users@perl.org

Subject: RE: Insert help...

Doesn't MySQL have the concept of a unique or primary key constraint?

If it does, why not ...

1. INSERT
2. If insert fails due to PK violation, perform archiving and update the row

This saves the cost of an extra insert (which is what the PK check sort of performs ;)

I also would like to suggest that you put all of your prepare() statements outside of your while { }. This will save the time to parse the statement for each line from the file.

Ron Reidy
Lead DBA
Array BioPharma, Inc.
303.386.1480

-----Original Message-----

From: NIPP, SCOTT V (SBCSI) [mailto:sn4265@sbc.com]
Sent: Tuesday, March 15, 2005 12:25 PM
To: dbi-users@perl.org
Subject: Insert help...

I am working on a Perl MySQL problem. Basically, the script parses a text file and then checks a database table to see if it needs to be updated. If the entry is NOT in the table, it inserts the entry. If the entry does exist, it compares the data. Assuming these data is identical nothing happens, if however, the data is different then the entry is archived off to a history table and the new data is inserted. Here is basically what I have...

```
while (my $file = <CSV>) {
    my $line = $csv->parse($file);
    my @data = $csv->fields($file);
    my $test = $dbh->prepare(qq{SELECT * FROM AllMid_Data WHERE
CPU_Hostname = ?});
    $test->execute ($data[14]);
    my $rows = $test->rows;
    if ($rows == 0) {
        print "Entry not found. Inserting into database. \n";
        my $sth = $dbh->prepare("INSERT INTO AllMid_Data VALUES(?".( "?" x
21).")") # This is the INSERT if the data is new.
        or print "Error with INSERT _prepare_ $DBI::errstr\n";
        $sth->bind_param(1, undef);
        $sth->bind_param($_+2, $data[$_]) foreach 0..20;
        $sth->execute() or print "Data insert failed.";
    } else {
        # print "Found entry and checking if updating is needed. \n";
        my @old = $test->fetchrow_array ();
        foreach $n (0..20) {
            chomp($file_val = $data[$n]);
```

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```
$file_val =~ s/\s*$//;
chomp($db_val = $old[$n+1]);
# print "Comparing $file_val to $db_val. \n"; Testing line
if ($file_val eq $db_val) {
    $update = 1;
} else {
    $update = 0;
    print "Comparing $file_val to $db_val. \n";
    last;
}
}
if ($update == 0) {
    print "$data[14] requires updating in database. Updating entry
now.\n";
    # Insert existing data into AllMid_Hist.
    shift(@old);
    $dbh->do(qq{
        INSERT INTO AllMid_Hist VALUES ("(",?" x 22).")), #
This is where I run into issues.
    undef,@old,NOW()); # I am not sure how to
structure this syntax and not having luck finding the answer.
}
}
}
```

Thanks in advance for any help.

Scott Nipp
Phone: (214) 858-1289
E-mail: sn4265@sbc.com
Web: <http://ldsa.sbclld.sbc.com>

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