

RE: inserting XML Document into Oracle database using a stored procedure

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Source: <http://coding.derkeiler.com/Archive/Perl/perl.dbi.users/2006-03/msg00022.html>

- *From:* Ron.Reidy@xxxxxxxxxxxxxxxxxxxxxx (Ron Reidy)
 - *Date:* Thu, 2 Mar 2006 16:02:29 -0700
-

So, I have a couple of questions.

Why are you parsing the doc? Are you trying to validate it? Have you tried to eliminate this step and just insert the doc, even as a test?

You say it the database is not being called. So where does the error occur? I assumed you were having a DB issue, since this is a DBI mailing list. If your issue is with the XML::DOM::Parser, that is where you should concentrate your efforts.

I have a couple of Perl programs that insert XML documents into a table with a column type of SYS.XMLType and have never had issues getting them into the DB.

I would suggest checking that the XML::DOM::Parser methods (if you really must parse the document) are returning without errors, and possibly the use of the Perl debugger to resolve the issue.

rr

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

From: Hariharan Venkata-Chinnaswamy

[<mailto:hariharan.venkata-chinnaswamy@xxxxxxxxxx>]

Sent: Thursday, March 02, 2006 3:51 PM

To: Reidy, Ron

Cc: Hariharan Venkata-Chinnaswamy; dbi-users@xxxxxxxxxx

Subject: Re: inserting XML Document into Oracle database using a stored procedure

Here is the version information

Perl Verion is 5.8.5

Oracle client version is 9.0

DBI version is 1.45

DBD::Oracle version is 1.15

The problem is that i am not getting any errors. The database is not being called it errors out before that so there is no error message.

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What i am trying to do is i want to insert a xml file into the Oracle database using a stored procedure which takes a XmlType type parameter.

How do i create a DOM object to be binded using the bind_param method?

Hari

Reidy, Ron wrote:

What is happening? What Oracle version, Perl version DBI/DBD::Oracle versions?

--

Ron Reidy
Lead DBA
Array BioPharma, Inc.

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

From: Hariharan Venkata-Chinnaswamy
[mailto:hariharan.venkata-chinnaswamy@xxxxxxxxxx]
Sent: Wednesday, March 01, 2006 9:43 PM
To: dbi-users@xxxxxxxx
Subject: inserting XML Document into Oracle database using a stored procedure

I am trying to insert a XMLType XmlDom.DOMDocument into the Oracle database and I am stuck. Thanks in advance for any pointers.

Here is my stored procedure. The first parameter in the checkin_design

stored procedure is a DOM object type parameter. The rest of the parameters are regular strings.

```
PROCEDURE checkin_design( in_designinfo_doc IN XmlDom.DOMDocument,
```

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```
in_design_tag IN
DESIGN_TAG.TAG%TYPE,

in_username IN
DESIGN.created_by%TYPE,

out_message OUT VARCHAR2) IS

v_result BOOLEAN := FALSE;

v_proc VARCHAR2(500) := 'CHECKIN_DESIGN-1';

BEGIN

v_result := checkin_design (in_designinfo_doc

,in_design_tag

,in_username

,out_message);

EXCEPTION

WHEN OTHERS THEN

v_error_stack := DBMS_UTILITY.format_error_stack;

v_error_call := DBMS_UTILITY.format_call_stack;

v_ora_errno := SQLCODE;

v_ora_errmsg := SUBSTR ( SQLERRM, 0, 255 );

v_db_object := v_db_object||'.'||v_proc;

v_additional_info := '[PARAMETERS] in_designinfo_doc=[DOM
Document], in_design_tag='||in_design_tag||',
in_username='||in_username;

Error_Monitor.log_error ( v_db_schema

,v_application

,v_db_object
```

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```
,565  
  
,v_ora_errno  
  
,v_ora_errmsg  
  
, 'Unhandled exception in  
'||v_db_object||'. '||v_proc  
  
,v_username  
  
,SYSDATE  
  
,1  
  
,v_error_stack  
  
,v_error_call  
  
,v_additional_info  
  
, 'Y' );  
  
out_message := v_ora_errmsg;  
  
END checkin_design;
```

Here is my perl script

```
#!/tools/xgs/perl/5.8.5/bin/perl  
  
use strict;  
  
use lib "/tools/xgs/perl/5.8.5/lib/dbd/oracle/8.1.7/lib";  
  
use DBI;
```

```

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use XML::DOM;

use DBD::Oracle qw(:ora_types);

$ENV{'ORACLE_HOME'} = '/mis/TREE/oracle/5prod/8.1.7';

my $dbh = DBI->connect('dbi:Oracle:ubmdev.ir.xilinx',
'xxx',
'xxxxxxx',
{RaiseError => 1, AutoCommit => 1}) || die
"cannot connect:$DBI::errstr";

print "connected to DB\n";

my $infile = "designInfo.xml";

my $dom_parser = new XML::DOM::Parser;

my $doc = $dom_parser->parsefile($infile);

my $nodes = $doc->getElementsByTagName ("designInfo");

my $err1;

my $func1;

eval {

$func1 = $dbh->prepare(q{

BEGIN

DESIGN_PKG.checkin_design(:param1, :param2, :param3, :error);

END;

});

```

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```
$func1->bind_param_inout(":error",\$err1,500);

$func1->bind_param(":param1",$doc->getDocumentElement(), { ora_type
=> ORA_CLOB });

$func1->bind_param(":param2",'head-00134');

$func1->bind_param(":param3",'hvenkata');

$func1->execute;

print "DIAGNOSIS: $DBI::lasth : $DBI::lasth->{Type} :
$DBI::lasth->{Statement}\n";

};

if ($@) {

warn "message: $DBI::errstr\n";

warn "message2: " . $func1->errstr() . "\n";

warn "message3: " . $func1->err() . "\n";

}

print "store procedure returns $err1\n";

$dbh->disconnect;
```

What am I doing wrong?

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Hari

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