

RE: Oracle cursor help

Source: <http://coding.derkeiler.com/Archive/Perl/perl.dbi.users/2005-06/msg00171.html>

- *From:* Ron.Reidy@xxxxxxxxxxxxxxxxxxxxxx (Ron Reidy)
 - *Date:* Thu, 23 Jun 2005 10:49:58 -0600
-

Row-at-a-time processing is horrifically slow. If there is a large amount (gigs) of data, he should use bulk processing in PL/SQL, possibly using the LIMIT clause.

Something like this (your mileage may vary):

```
declare
rids dbms_utility.uncl_array;
begin
select rowidtochar(rowid)
from table
where <your where clause>
bulk collect into rids;

for all idx in rids.first .. rids.last
delete from table where rowid = chartorowid(rids(idx));
end;
/

commit;
```

No need to lock the rows.

If there are more rows to delete than to keep, he should consider making a copy of the data (using CTAS) into a temporary table and then:

1. drop all indexes
2. truncate the table
3. drop the table
4. rename temp table to original_table_name

Ron Reidy
Lead DBA
Array BioPharma, Inc.

-----Original Message-----
From: Job Miller [<mailto:jobmiller@xxxxxxxxxx>]
Sent: Thursday, June 23, 2005 10:41 AM

RE: Oracle cursor help

To: jseger3@xxxxxxxxxxxxx; dbi-users@xxxxxxxxx
Subject: Re: Oracle cursor help

Size your rollback so you can do this in one transaction.

DECLARE

```
CURSOR T1 IS
SELECT e, f
FROM T1
WHERE e < f
FOR UPDATE;
BEGIN
OPEN T1Cursor;
LOOP
```

```
/* Retrieve each row of the result of the
above query
```

```
into PL/SQL variables: */
```

```
12) FETCH T1Cursor INTO a, b;
```

```
/* If there are no more rows to fetch,
exit the loop: */
```

```
13) EXIT WHEN T1Cursor%NOTFOUND;
```

```
/* Delete the current tuple: */
```

```
14) DELETE FROM T1 WHERE CURRENT OF T1Cursor;
```

```
/* Insert the reverse tuple: */
```

```
15) INSERT INTO T1 VALUES(b, a);
```

```
16) END LOOP;
```

```
/* Free cursor used by the query. */
```

```
17) CLOSE T1Cursor;
```

```
18) END;
```

--- jeff <jseger3@xxxxxxxxxxxxx> wrote:

```
> ditto....and I'd add that if your delete is taking
> forever to run that
> you may want to consider getting some indexes on the
```

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> columns you are
> using to filter for your delete. If a "select *
> from myTable where
> <insert your predicate here>" takes a long time,
> then so will a delete
> with the same predicate and no PL/SQL trick is going
> to speed it up. You
> may be able to throw in a hint, depending on how the
> table is
> structured/indexed, and it's also possible that
> running stats on the
> table will have a positive effect on the speed.
>
> Martin Hall wrote:
>
>> Well, I have to echo what others have said. The
> only reason I can
>> think of for using loops to do your delete is if
> you really want to
>> save a chunk of rollback segment. Even then, I
> would consider
>> batching the rows up into chunks that you could
> manage with predicates
>> like BETWEEN or IN. Switching context from PL/SQL
> for the loop to SQL
>> for the delete takes time (only a little, but it
> adds up). And if
>> you're using bitmap indexes, batch deletes are
> much kinder than single
>> row ones.
>>
>> Martin (apologies if this is OT)
>>
>> Vergara, Michael (TEM) wrote:
>>
>>> Steve:
>>>
>>> I have a PL/SQL process that I use to purge rows
> from a table
>>> that grows by about 14M rows/month. Even though
> it's PL/SQL,
>>> the process should be (might be?) transportable
> to Perl.
>>>
>>> Basically, it looks like this:
>>>
>>> Define SQL statement to gather the rows (PL/SQL
> cursor);
>>> ctr = 0;
>>> For each row:
>>> delete from table where recid = cursor.recid;

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```
>>> ctr += 1;
>>> if ctr > 10000 {
>>> commit;
>>> ctr = 0;
>>> }
>>> next
>>>
>>> I don't know enough about the DBI to know if the
> 'recid'
>>> field from PL/SQL can be used in Perl, but if you
> get it
>>> to work I'd be interested in hearing about it.
>>>
>>> Cheers,
>>> Mike
>>>
>>>
>>> -----Original Message-----
>>> From: Steve Sapovits
> [mailto:steves06@xxxxxxxxxxxxx] Sent: Wednesday,
>>> June 22, 2005 11:18 PM
>>> To: dbi-users@xxxxxxxxx
>>> Subject: Oracle cursor help
>>>
>>>
>>> I have a few Oracle tables that have gotten way
> too big. Normal
>>> DELETE/WHERE clauses consume too many resources.
> I know enough
>>> to know that cursors would be more efficient here
> but I don't
>>> know enough to actually start using them. Does
> anyone have an
>>> example or two (or three) to bootstrap me? What
> I'd essentially
>>> want to do is loop through all rows, look at a
> few column settings,
>>> and delete those that fall into certain
> categories (e.g., certain
>>> dates being so old and certain status fields not
> being set to a
>>> set value, etc.). I can also limit the row set
> up front with a
>>> pretty simple WHERE clause -- whatever is more
> efficient is what
>>> I'm aiming for (it wasn't clear to me if limiting
> up front with
>>> WHERE clauses defeated the efficiency of cursors
> ...)
>>>
>>>
```

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>>>
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>
>

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 - Next by Date: [*NOT getting "duplicate entry" error with DBI/MySQL*](#)
 - Previous by thread: [*Re: Oracle cursor help*](#)
 - Next by thread: [*RE: Oracle cursor help*](#)
 - Index(es):
 - ◆ [*Date*](#)
 - ◆ [*Thread*](#)