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Transaction management in SQL — Sybase example

Transaction management in SQL — Sybase example

Posted on [April 8, 2015](#) by [Arulkumaran Kumaraswamipillai](#)

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Q. How do you perform transaction management in SQL stored procedures?

A. Handled with **begin**, **commit**, and **rollback** 'tran' commands in **Sybase** server.

Q. Why is it important?

A. It is important to leave the database in a consistent state.

Q. Can you give an example?

A. For example, as demonstrated below, if you are going to delete 21 records from a database table, you can use transaction management to ensure that a GIVEN COUNT say 21 records are either deleted or rolled back. Partially deleting records can leave the database in inconsistent state.

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```

1 print 'Before delete from employee_table'
2 print '-----'
3
4 DECLARE @EMPLOYEE_IN_CLAUSE varchar(10000)
5 Select @EMPLOYEE_IN_CLAUSE = "'John', 'Joseph'"
6
7 exec ('select * from semployee_table where first_
8 exec ('select count(*) as deleted_transact_recor
9
10 declare @rowcount int
11 select @rowcount = 0
12
13 --transaction starts
14 begin tran
15
16 --Deletion
17 print 'delete some records from employee_table'
18 exec ('delete from sd_wrap..employee_table where
19
20 --number of rows deleted
21 select @rowcount = @rowcount + @@rowcount
22
23 --commit or rollback
24 if @rowcount = 21
25 begin
26     commit tran
27     print 'success'
28 end
29 else
30 begin
31     rollback tran
32     print 'failed'
33 end
34
35
36 print 'After delete from employee_table'
37 print '-----'
38
39 exec ('select * from employee_table where first_
40 exec ('select count(*) as deleted_transact_recor
41
42 go
43
44

```

In Sybase, @@rowcount variable returns the number of rows affected by the query. This post also demonstrates a production ready script with proper print statements, transaction management, etc to perform a basic DELETE operation. Same thing is true for insert and update operations.

Q. Do you require any other script if the above deletion causes unexpected issue?

A. Yes, you need a rollback script with 21 insert statements to

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revert the changes. In other words script to put the deleted data back.

Q. Is there a smarter way to generate the insert script or will you type them in one by one?

A. There is a smarter way using a select statement to generate all the 21 insert statements with the following query.

```

1 SELECT 'INSERT INTO employee_table ( first_name,
2 || '||' || first_name || '||'
3 || ', '||' || surname || '||'
4 || ', '||' || salary
5
6 || ' )'
7
8 FROM employee_table
9 WHERE first_name in ('John', 'Joseph');
10

```

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