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Swap values for two rows in the same table in SQL Server

Asked 9 years, 4 months ago Active 5 months ago Viewed 35k times



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I want to swap the values from two rows in a table. I have the rows IDs of the two rows. Is there any query to do that? Here is an example. Before the query I have this:

```
row1 : 1,2,3
row2 : 5,6,7
```



2

After the swap I want this:

```
row1 : 5,6,7
row2 : 1,2,3
```

sql



sql-server

edited Feb 13 at 21:11



[MarredCheese](#)

4,436 4 30 46

asked May 3 '10 at 13:39



[Amr Elnashar](#)

990 11 29 53

The first time I read your question I thought you wanted to make a copy of a row, but now I'm starting to think that you want to update the values in one row to equal the values in another row... but I don't get the 'vice versa' part of your question. Can you give some examples to help clarify your question? – [Mark Byers](#) May 3 '10 at 13:56

Vice versa here means that i need also to update the row that i took data from it with the data from row updated example : row1 : 1,2,3 row2 : 5,6,7 after coping i want row1 : 5,6,7 row2 : 1,2,3 I hope you got it. – [Amr Elnashar](#) May 3 '10 at 14:08

@AmRoSH: I've rewritten your question so that it is easier to understand. I hope that I have done it correctly, otherwise please edit it again. And you should try to write you question clearly in future - it will get you better quality answers more quickly. – [Mark Byers](#) May 3 '10 at 20:14

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If you want to swap values from one row to the other for two known IDs try something like this:

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--need to store the original values

```
SELECT
  *,CASE WHEN id=123 then 987 ELSE 123 END AS JoinId
INTO #Temp
FROM YourTable
WHERE ID in (123,987)
```

--swap values

```
UPDATE y
SET col1=t.col1
  ,col2=t.col2
FROM YourTable      y
  INNER JOIN #Temp  t ON y.id =t.JoinId
WHERE ID in (123,987)
```

answered May 3 '10 at 14:12



[KM.](#)

85.9k

27

152

195

Thanks KM is this query works with multiple rows means if those IDs are foreign keys and i need to swap their rows. – [Amr Elnashar](#) May 3 '10 at 15:27

this should work if the columns to swap are foreign keys or just plain data. – [KM.](#) May 3 '10 at 17:12

Does this work with primary key ? – user3622576 Nov 26 '15 at 6:51

@JanakThakkar, I try to never update primary keys. it is a real pain to properly handle all foreign keys. If you don' have constraint issues (FK, PK) then you can update a PK, it depends on what you need/want. – [KM.](#) Nov 30 '15 at 14:23

Thanks for kind information@KM. – user3622576 Dec 1 '15 at 4:05

Simple update works:

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```
col2 = CASE WHEN col2 = 2 THEN 6 ELSE 2 END,
col3 = CASE WHEN col3 = 3 THEN 7 ELSE 3 END
```

Result: row values are swapped.

answered Aug 27 '13 at 15:09



[Israel Margulies](#)

7,393 2 24 25

3

```
UPDATE t1
SET
t1.col1 = t2.col1
,t1.col2 = t2.col2
,t1.col3 = t2.col3
,t1.col4 = t2.col4
--and so forth...
FROM YourTable AS t1
INNER JOIN YourTable AS t2
ON (t1.ID = '1'
AND t2.ID = '2')
OR
(t1.ID = '2'
AND t2.ID = '1')
```

You don't necessarily need to use the ID column of your table, I believe you could search by any column, with the proper joining logic. Joining the table to itself is the trick.

answered Jul 5 '16 at 19:41



[Brian](#)

31 1

is that possible to swap whole row if i update one column only using your query. ? Because I just update one column only using your query and its swapped the whole row. – [FullStack](#) Jun 30 '17 at 5:07

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A Simple, Scalable Solution

```

WITH map AS (
  SELECT *
  FROM (VALUES
    (1, 2), -- Here's an example of swapping two rows:
    (2, 1), -- 1 <- 2, 2 <- 1

    (3, 4), -- Here's an example of rotating three rows:
    (4, 5), -- 3 <- 4, 4 <- 5, 5 <- 3
    (5, 3),

    (6, 7) -- Here's an example of just copying one row to another: 3 <- 5
  ) AS a (destID, srcID)
)
UPDATE destination
SET
  ColumnA = source.ColumnA,
  ColumnB = source.ColumnB,
  ColumnC = source.ColumnC
FROM
  SomeTable AS destination
  JOIN map ON map.destID = destination.ID
  JOIN SomeTable AS source ON source.ID = map.srcID

```

Notes

- You can do **two-row swaps, many-row swaps, and copies. It's flexible.**
- Specify **as many destination/source row pairs as needed.** Only destination rows will be updated.
- Specify the columns you want to be copied over. Only those columns will be updated.
- There's no temporary table to clean up.
- It's easy to reuse since the row IDs are listed in a **single, obvious place.**

edited Apr 2 at 18:25

answered Feb 13 at 21:08



MarredCheese

4,436 4 30 46

1

I had my database look like so

Table:Order_Table

```
Index_Column,Order_Column,Text
1            ,1            ,"Second Test text"
2            ,2            ,"First Test text"
```

I wanted to be able to swap them around using pdo in php. Ultimately I found a way to do it with one SQL query

```
UPDATE `Order_Table` AS o
INNER JOIN (SELECT `Index_Column`, `Order_Column` FROM `Order_Table`
WHERE `Index_Column` IN (:Index1,:Index2))
AS t ON o.`Index_Column` <> t.`Index_Column`
SET o.`Order_Column` = t.`Order_Column`
WHERE o.`Index_Column` IN (:Index1,:Index2)
```

answered Jan 6 '14 at 16:50



[penguinjeff](#)

146 2 7

You need to select all records by "WHERE" condition, Then "SET" update by "CASE" condition.

1

```
UPDATE tbl_Temp SET
fk_userType = CASE fk_userType WHEN 1 THEN 2 WHEN 2 THEN 1 END,
fk_userRole = CASE fk_userRole WHEN 1 THEN 2 WHEN 2 THEN 1 END
WHERE (fk_userType = 1 AND fk_userRole = 1) OR (fk_userType = 2 AND fk_userRole = 2);
```

answered Mar 10 '17 at 8:56



[Nikunj Patel](#)

200 1 4 18

None of the above examples is practical ... It should look like the following update section:

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```

/*****
IF EXISTS (SELECT TOP 1 * FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_NAME = 'TEST' AND
TABLE_SCHEMA = 'dbo')
DROP TABLE [dbo].[TEST];

CREATE TABLE [dbo].[TEST](
    [ID]          int          IDENTITY(1,1) NOT NULL,
    [Name]        varchar(50)   NULL,
    [Surname]     varchar(50)   NULL,
    [AGE]         int          NULL,
    CONSTRAINT [PK_TEST] PRIMARY KEY CLUSTERED
        ( [ID] ASC ) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
/*****
/*  INSERTING TEST VALUES */
/*****
INSERT INTO dbo.TEST (Name, Surname, AGE)
SELECT 'Sevim'          , 'PARLAYAN' , 36  UNION ALL
SELECT 'Uğur'           , 'PARLAYAN' , 41  UNION ALL
SELECT 'Berkan Cahit'   , 'PARLAYAN' , 17  UNION ALL
SELECT 'Miray Çağla'    , 'PARLAYAN' , 6   ;

SELECT * FROM dbo.TEST ORDER BY ID;

-- At this point maybe the trigger can be disabled...

/*****
/*  I'm swapping Uğur and Sevim rows (So, rows into 1 and 2 do swapping )... */
/*****
UPDATE TT
SET     TT.Name      = ZZZ.Name
      , TT.Surname   = ZZZ.Surname
      , TT.AGE       = ZZZ.AGE
FROM     dbo.TEST as TT
JOIN     (
        SELECT TOP 1 * FROM dbo.TEST WHERE ID = 2 /* Big key value first */
UNION ALL
        SELECT TOP 1 * FROM dbo.TEST WHERE ID = 1 /* Then small key value... */
      ) as ZZZ on ZZZ.ID in (1, 2)
WHERE    TT.ID in (1, 2) ;

-- At this point maybe the trigger can be activated...

```

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answered Jun 30 '17 at 7:36



Uğur PARLAYAN

13 4

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