

## How to concatenate strings with padding in sqlite

Ask Question

I have three columns in an sqlite table:

Columni	Column2	Column
Α	1	1
Α	1	2
Α	12	2
C	13	2
В	11	2

I need to select column1-column2-column3 (e.g. A-01-0001). I want to pad each column with a

I am a beginner with regards to SQLite, any help would be appreciated





asked May 26 '11 at 6:11



Possible duplicate: stackoverflow.com/g/3568779/2291 – Jon Adams Oct 31 '12 at 20:48

## 3 Answers



The || operator is "concatenate" - it joins together the two strings of its operands.

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From http://www.sqlite.org/lang expr.html



For padding, the seemingly-cheater way I've used is to start with your target string, say '0000', concatenate '0000423', then substr(result, -4, 4) for '0423'.



Update: Looks like there is no native implementation of "Ipad" or "rpad" in SQLite, but you can follow along (basically what I proposed) here: <a href="http://verysimple.com/2010/01/12/sqlite-lpad-rpad-function/">http://verysimple.com/2010/01/12/sqlite-lpad-rpad-function/</a>
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```
-- the statement below is almost the same as
  -- select lpad(mycolumn, '0',10) from mytable
  select substr('00000000000' || mycolumn, -10, 10) from mytable
  -- the statement below is almost the same as
  -- select rpad(mycolumn, '0',10) from mytable
 select substr(mycolumn || '00000000000', 1, 10) from mytable
Here's how it looks:
 SELECT col1 || '-' || substr('00'||col2, -2, 2) || '-' || substr('0000'||col3, -4, 4)
it yields
  "A-01-0001"
  "A-01-0002"
  "A-12-0002"
  "C-13-0002"
  "B-11-0002"
                                             edited May 26 '11 at 8:22
                                                                             answered May 26 '11 at 6:17
                                                   104k 15 113 176
       Does || still work if one of the columns is null? - Andrew Nov 26 '13 at 22:06
3
8
       @Andrew - In general any scalar operation that involves NULL will yield NULL. Your requirements may be
       met using COALESCE(nullable_field, '') || COALESCE(another_nullable_field, '') . - MatBailie Feb
       4 '14 at 8:45
```

```
SQLite has a printf function which does exactly that:

31 SELECT printf('%s-%.2d-%.4d', col1, col2, col3) FROM mytable
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```



```
answered Sep 1 '14 at 20:22

ybungalobill

45.7k 13 95 162
```

- Query Error: no such function: printf Unable to execute statement select printf("%s.%s', id, url ) from mytable limit 7. My version is 3.8.2 2014-12-06. What version are you using? Berry Tsakala Nov 2 '14 at 15:10
- 3 @BerryTsakala: 3.8.6 ybungalobill Nov 8 '14 at 19:28



Just one more line for @tofutim answer ... if you want custom field name for concatenated row ...

```
15 SELECT
(

col1 || '-' || SUBSTR('00' || col2, -2, 2) | '-' || SUBSTR('0000' || col3, -4, 4)
) AS my_column

FROM

mytable;
```

Tested on SQLite 3.8.8.3, Thanks!



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