[How to insert multiple rows based on a quantity value in one row?](https://stackoverflow.com/questions/8812470/how-to-insert-multiple-rows-based-on-a-quantity-value-in-one-row)

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In MySQL, I am converting a table from a single row per item type (a quantity of items) to a single row per item, so that additional detail can be stored about individual items.

Here is an example source table:

id parent\_id qty item\_type

-- --------- --- ---------

1 10291 2 widget

2 10292 4 thinger

I want to create a new table with a new column containing info that cannot be applied to more than one item. Thus, the above table would end up as follows:

id parent\_id item\_type info

-- --------- --------- ----

1 10291 widget [NULL]

2 10291 widget [NULL]

3 10292 thinger [NULL]

4 10292 thinger [NULL]

5 10292 thinger [NULL]

6 10292 thinger [NULL]

Is there a way I can iterate or loop each row of the source table, inserting a number of records equal to the source qty column? I would prefer to do this in sql instead of code to keep all of the conversion steps together (there are many others).

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5 Answers

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2

You can do with stored procedure. That will be like below. Below is stored procedure I am using for inserting products into log based on their quantity.

Seem you have to do similar task. You can get how to use database cursor in stored procedure to loop over a result set in MySQL from below example.

DELIMITER $$

DROP PROCEDURE IF EXISTS CursorProc$$

CREATE PROCEDURE CursorProc()

BEGIN

DECLARE no\_more\_products, quantity\_in\_stock INT DEFAULT 0;

DECLARE prd\_code VARCHAR(255);

DECLARE cur\_product CURSOR FOR

SELECT productCode FROM products;

DECLARE CONTINUE HANDLER FOR NOT FOUND

SET no\_more\_products = 1;

/\* for loggging information \*/

CREATE TABLE infologs (

Id int(11) NOT NULL AUTO\_INCREMENT,

Msg varchar(255) NOT NULL,

PRIMARY KEY (Id)

);

OPEN cur\_product;

FETCH cur\_product INTO prd\_code;

REPEAT

SELECT quantityInStock INTO quantity\_in\_stock

FROM products

WHERE productCode = prd\_code;

IF quantity\_in\_stock < 100 THEN

INSERT INTO infologs(msg)

VALUES (prd\_code);

END IF;

FETCH cur\_product INTO prd\_code;

UNTIL no\_more\_products = 1

END REPEAT;

CLOSE cur\_product;

SELECT \* FROM infologs;

DROP TABLE infologs;

END$$

DELIMITER;

Seems your task is 90% same as above procedure. Just do needful changes. It will work.