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How to update multiple rows at once in MySQL?

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You have a table students with `id`, `score1`, and `score2` like this, where `id` is the primary key:

id	score1	score2
1	10	9
2	8	3
3	10	6
4	4	8

And here is the new table of data that you want to update to:


id	score1	score2
1	5	8
2	10	8
3	8	3
4	10	7

There are a couple of ways to do it.

1. You can either write multiple UPDATE queries like this and run them all at once:

```
UPDATE students SET score1 = 5, score2 = 8 WHERE id = 1;  
UPDATE students SET score1 = 10, score2 = 8 WHERE id = 2;  
UPDATE students SET score1 = 8, score2 = 3 WHERE id = 3;  
UPDATE students SET score1 = 10, score2 = 7 WHERE id = 4;
```

2. Or you can UPDATE with JOIN statement:



```

UPDATE students s
IN (
  SELECT 1 as id, 5 as new_score1, 8 as new_score2
  UNION ALL
  SELECT 2, 10, 8
  UNION ALL
  SELECT 3, 8, 3
  UNION ALL
  SELECT 4, 10, 7
) AS t
SET score1 = new_score1, score2 = new_score2;
  
```

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3. Or you can use `INSERT ... ON DUPLICATE KEY UPDATE`

```

INSERT INTO students
(id, score1, score2)
VALUES
  (1, 5, 8),
  (2, 10, 8),
  (3, 8, 3),
  (4, 10, 7)
ON DUPLICATE KEY UPDATE
  score1 = VALUES(score1),
  score2 = VALUES(score2);
  
```

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