

Turn a Clean Query into a Table

Try CREATE TABLE AS:

```
1. CREATE TABLE
2. view_item_events_1
3. AS
4. SELECT
5. event_id,
6. event_time,
7. user_id,
8. platform,
9. MAX(CASE WHEN parameter_name = 'item_id'
10. THEN parameter_value
11. ELSE NULL
12. END) AS item_id,
13. MAX(CASE WHEN parameter_name = 'referrer'
14. THEN parameter_value
15. ELSE NULL
16. END) AS referrer
17. FROM
18. events
19. WHERE
20. event_name = 'view_item'
21. GROUP BY
22. event_id,
23. event_time,
24. user_id,
25. platform
```

Check the table:

```
1. DESCRIBE view_item_events_1;
2. SELECT * FROM view_item_events_1
3. LIMIT 10;
4. DROP TABLE view_item_events_1;
```

Edit the Query:

```
1. CREATE TABLE
2. view_item_events_1
3. AS
4. SELECT
5. event_id,
6. TIMESTAMP(event_time) AS event_time,
7. user_id,
8. platform,
9. MAX(CASE WHEN parameter_name = 'item_id'
10. THEN parameter_value
11. ELSE NULL
12. END) AS item_id,
13. MAX(CASE WHEN parameter_name = 'referrer'
14. THEN parameter_value
15. ELSE NULL
16. END) AS referrer
17. FROM
18. events
19. WHERE
20. event_name = 'view_item'
21. GROUP BY
22. event_id,
23. event_time,
```

```
24. user_id,  
25. platform
```

Create the TABLE:

```
1. CREATE TABLE IF NOT EXISTS 'view_item_events' (  
2. event_id VARCHAR(32) NOT NULL PRIMARY KEY,  
3. event_time VARCHAR(26),  
4. user_id INT(10),  
5. platform VARCHAR(10),  
6. item_id INT(10),  
7. referrer VARCHAR(17)  
8. );
```

Insert Data- Bad Columns:

```
1. CREATE TABLE IF NOT EXISTS 'view_item_events' (  
2. event_id VARCHAR(32) NOT NULL PRIMARY KEY,  
3. event_time VARCHAR(26),  
4. user_id INT(10),  
5. platform VARCHAR(10),  
6. item_id INT(10),  
7. referrer VARCHAR(17)  
8. );  
  
1. INSERT INTO  
2. 'view_item_events';  
  
1. SELECT  
2. /*event_id, */  
3. TIMESTAMP( event_time ) AS event_time,  
4. user_id,  
5. platform,  
6. MAX(CASE WHEN parameter_name = 'item_id'  
7. THEN parameter_value  
8. ELSE NULL  
9. END) AS item_id,  
10. MAX(CASE WHEN parameter_name = 'referrer'  
11. THEN parameter_value  
12. ELSE NULL  
13. END) AS referrer  
14. FROM  
15. events  
16. WHERE  
17. event name = 'view_item'  
18. GROUP BY  
19. event_id,  
20. event_time,  
21. user_id,  
22. platform
```

Insert Data into the TABLE: Good

```
1. INSERT INTO  
2. 'view_item_events';  
3.  
4. SELECT  
5. event_id,  
6. TIMESTAMP( event_time ) AS event_time,  
7. user_id,  
8. platform,  
9. MAX(CASE WHEN parameter_name = 'item_id'  
10. THEN parameter_value  
11. ELSE NULL
```

```
12. END) AS item_id,  
13. MAX(CASE WHEN parameter_name = 'referrer'  
14. THEN parameter_value  
15. ELSE NULL  
16. END) AS referrer  
17. FROM  
18. events  
19. WHERE  
20. event_name = 'view_item'  
21. GROUP BY  
22. event_id,  
23. event_time,  
24. user_id,  
25. platform
```

If we want to overwrite data:

```
1. REPLACE INTO  
2. 'view_item_events';  
3.  
4. SELECT  
5. event_id,  
6. TIMESTAMP( event_time ) AS event_time,  
7. user_id,  
8. platform,  
9. MAX(CASE WHEN parameter_name = 'item_id'  
10. THEN parameter_value  
11. ELSE NULL  
12. END) AS item_id,  
13. MAX(CASE WHEN parameter_name = 'referrer'  
14. THEN parameter_value  
15. ELSE NULL  
16. END) AS referrer  
17. FROM  
18. events  
19. WHERE  
20. event_name = 'view_item'  
21. GROUP BY  
22. event_id,  
23. event_time,  
24. user_id,  
25. platform
```