**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\_eveilts\_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. );
9. **INSERT** **INTO**
10. ‘view\_item\_events’;
11. **SELECT**
12. /\*event\_id, \*/
13. **TIMESTAMP**( event\_time ) **AS** event\_time,
14. user\_id,
15. platform,
16. **MAX**(CASE **WHEN** parameter\_name = 'item\_id'
17. **THEN** parameter\_value
18. **ELSE** NULL
19. **END**) **AS** item\_id,
20. **MAX**(CASE **WHEN** parameter\_name = 'referrer'
21. **THEN** parameter\_value
22. **ELSE** NULL
23. **END**) **AS** referrer
24. **FROM**
25. events
26. **WHERE**
27. event **name** = 'view\_item'
28. **GROUP** **BY**
29. event\_id,
30. event\_time,
31. user\_id,
32. platform

Insert Data into the TABLE: Good

1. **INSERT** **INTO**
2. ‘view\_item\_events’;
3. **SELECT**
4. event\_id,
5. **TIMESTAMP**( event\_time ) **AS** event\_time,
6. user\_id,
7. platform,
8. **MAX**(CASE **WHEN** parameter\_name = 'item\_id'
9. **THEN** parameter\_value
10. **ELSE** NULL
11. **END**) **AS** item\_id,
12. **MAX**(CASE **WHEN** parameter\_name = 'referrer'
13. **THEN** parameter\_value
14. **ELSE** NULL
15. **END**) **AS** referrer
16. **FROM**
17. events
18. **WHERE**
19. event **name** = 'view\_item'
20. **GROUP** **BY**
21. event\_id,
22. event\_time,
23. user\_id,
24. platform

If we want to overwrite data:

1. **REPLACE** **INTO**
2. ‘view\_item\_events’;
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