## 5 cr pluse dead tuple in table which one is better:-

**50 million (5 crore) dead tuples** in a table that's becoming **slow to query**, especially with a `GROUP BY` + `HAVING` aggregation.

# `VACUUM` vs `VACUUM FULL` — Which One is Better in Your Case?

| Feature | VACUUM | VACUUM FULL |
|---|---|---|
| Reclaims Space | Marks space for reuse (not disk) | Shrinks table, releases disk space |
| Locks Table | ❌ No (non-blocking) | ✅ Yes (exclusive lock during run) |
| Fixes Bloat | Partially | ✅ Fully |
| Query Performance Boost | Medium | ✅ High |
| Use Case | Routine cleanup | Heavy bloat situations |

Recommendation:-

Since the table has a very high number of dead tuples (around 5 crore), we recommend performing a VACUUM FULL during off-peak hours. This will fully clean the table, improve query performance, and reduce disk usage.

## Here's Why Vacuum Improves Performance:

| Type | What It Does | Impact on Query |
|---|---|---|
| VACUUM | - Marks dead tuples for reuse<br>- Updates visibility map for index-only scans | ✅ Moderate |
| VACUUM FULL | - Physically removes dead tuples<br>- Rewrites the table<br>- Shrinks disk usage | ✅✅ High |

Run: ANALYZE cases; after VACUUM to refresh query planner statistics.