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Overview

This document is intended to provide reasons to use one to one relstionship although there are no dublication in data.

Reasons to use one to one relationship

1. Optional or Rarely Used Fields

When only some rows need extra data:

- Instead of having many NULLs in one large table, move that data to a related table.
- Improves storage efficiency and query performance (smaller row size in main table).

Example: Not every employee might have a company phone.

2-Security and Access Control

You might want to:

- Restrict access to sensitive info (e.g., Employeessn) by isolating it in a separate table
- Grant access at the table level rather than using row-level security

3-Avoiding Table Locking Conflicts

Separating frequently-updated data (e.g., contact info) from stable data (e.g., name, DOB) can reduce row-level locking issues in high-write environments.

4-Separation of Concerns / Logical Grouping

You might split a table into two if some columns are conceptually different. For example:

- Employee table holds general info
- EmployeeDetails or Phone table holds optional or less-frequently used data

This keeps the main table clean and focused.

Conclusion:

Even without duplication, one-to-one relationships can improve design clarity, performance, modularity, and security.