

## What concurrency problems does a database face?

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A database will face 3 concurrency problems which is categorized as

1. Dirty read
2. Incorrect update
3. Incorrect summary

The first one occurs when two people read same data concurrently where one writes/ changes the data but that is not reflected to the data read by the other one. This is called dirty read or wrong data read.

To explain second thing, consider that person **A** updates the data whereas person **B** will read the previous non updated data and performs transaction, ultimately leading the transaction invalid.

The third problem will mostly prevail in banking transactions where the amount of data transacted at the end of the day will give incorrect summary.

It may seem that all the problems are similar, this is because each one is interconnected. If first problem occurs eventually all the problems will consequently occur.

These problems can be overcome by providing lock or by providing thread lock.

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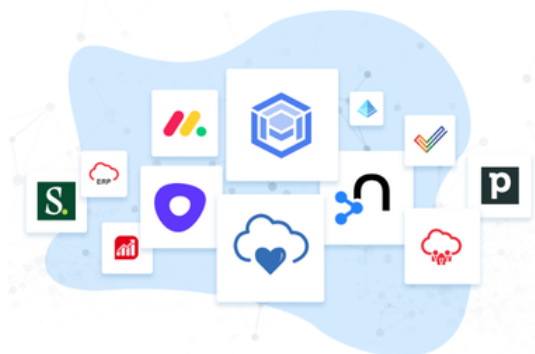


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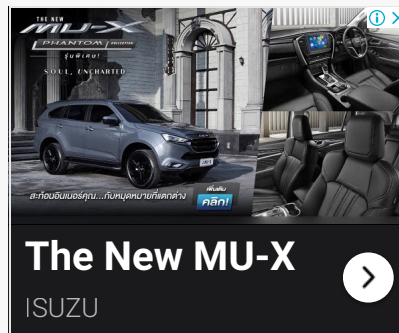
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It depends on the **Transaction Isolation Level** the database is using, the **Logical Architecture** of the database, and what types of queries are being ran against the database.


The default Transaction Isolation Level in most relational database management systems is

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