

Fundamentals of Data Management

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Credit Task 9.2.3

How are lost updates prevented in MySQL using READ-COMMITTED Isolation Level?

MySQL normally uses REPEATABLE-READ which does not allow lost updates. On the other hand, there are workarounds on the application side to reduce, or remove, the chance of lost updates occurring in a database. A simple method of doing this is through the `SELECT FOR UPDATE` keyword.

For example:

```
1 | SELECT * FROM Products WHERE ProductID=1 FOR UPDATE
```

The above line will lock `Products.ProductID` until the transaction has been completed, removing the ability for another transaction to modify the attribute concurrently and therefore lost updates.

Of course, this does reduce the performance of the database.