

When do Deadlocks Occur?

- 3 necessary conditions for a deadlock to occur
 1. Some objects are accessed in exclusive lock modes
 2. Transactions holding locks cannot be preempted
 3. There is a circular wait (cycle) in the Wait-for graph
- “Necessary” = if there’s a deadlock, these conditions are all definitely true
- (Conditions not sufficient: if they’re present, it doesn’t imply a deadlock is present.)