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Kbase 13974: Why an EXCLUSIVE-LOCK does not always start a TRANSACTION Autor Acesso  
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Why an EXCLUSIVE-LOCK does not always start a TRANSACTION

In the following three examples, the first will show that no transaction is active, whereas the second two examples will show an active transaction. Why?

Example 1:

```
FIND FIRST customer NO-LOCK.  
FOR EACH customer EXCLUSIVE-LOCK:  
MESSAGE TRANSACTION.  
END.
```

Example 2:

```
FOR EACH customer EXCLUSIVE-LOCK:  
MESSAGE TRANSACTION.  
END.
```

Example 3:

```
FIND FIRST customer NO-LOCK.  
FOR EACH customer EXCLUSIVE-LOCK:  
MESSAGE TRANSACTION.  
UPDATE customer.  
END.
```

Example 3:

```
FIND FIRST customer NO-LOCK.  
FOR EACH customer EXCLUSIVE-LOCK:
```

MESSAGE TRANSACTION.  
UPDATE customer.  
END.

The answer is:

If you want a FOR EACH to be a transaction, the rule is to put the TRANSACTION keyword there. If there is no transaction keyword, but the FOR EACH block contains a FIND... EXCLUSIVE-LOCK on a buffer other than one in the FOR EACH itself, or an UPDATE/CREATE/DELETE on a database file (not a workfile, worktable or temptable) then it defaults to TRANSACTION. If there is an EXCLUSIVE-LOCK on one of the buffers in the FOR EACH statement, and that buffer is scoped to the FOR EACH block, then it will also default to TRANSACTION. In the first example, the CUSTOMER buffer is not scoped to the FOR EACH block and the keyword TRANSACTION was not used on the FOR EACH statement, and there were no UPDATE/DELETE/CREATE statements within the block, so it does not default to TRANSACTION. The second example has EXCLUSIVE-LOCK on a buffer that is scoped to the FOR EACH block, so it does default to TRANSACTION, and the third example has an UPDATE statement, so it also defaults to TRANSACTION.

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