

A)

| T1 | T2 |
|------|------|
| | R(x) |
| | R(y) |
| | W(y) |
| R(x) | |
| R(y) | |
| W(x) | |
| | R(x) |
| | R(y) |
| | W(x) |
| | R(z) |
| | W(z) |

] Row(x) ↕

B) Yes. Although R(x) cannot conflict with another read it may still conflict with W(x), in particular a dirty read.

Having this query as a transaction allows one to set isolation levels based on the consequences of a schedule with this conflict.