Birzeit University

Quiz#3 Comp333

Instructor: Wahbeh Mousa

Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

LSN1<BEGINT1>

LSN2<T1, X, 10, 5>

LSN3<BEGIN T2 >

LSN4<T1, Y, 12, 7 >

LSN5<T2, X, 5, 9>

LSN6<BEGIN T3>

LSN7<T3, Z, 6, 11>

LSN8<COMMIT T1>

LSN9<CHEAKPOINT>

LSN10<T2, X, 9, 13>

LSN11<T3, Y, 11, 15>

\*C\*R\*A\*S\*H\*

1. Find the values of the variables (X, Y, Z) in the database before the crash (at the moment of crash).

X=9 y=7 z=11

1. Find the values of the variables (X, Y, Z) in the database after the recovery process.

X=5 y=7 z=6

1. When the crash occur which transactions need REDO and which of them need UNDO,

Show the active transaction table(ATT).

|  |  |
| --- | --- |
| T2 | LSN10 |
| T3 | LSN11 |