## Module 13: Lab

## Elita Danilyvk

1. Extend the figure to show prevLSN and undonextLSN values.

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	LSN	Loq	prevLSN	undoNexTLSN				
	00	update: TI writes P2	1	1				
	10	update: TI writes Pl	00	00				
	20	update: T2 writer P5	-	l				
	30	update: T3 writes P3	-	dem				
	40	T3 commit	30	not an update log record				
	50	update: T2 writes P5	20	20				
	60	update: T2 writer P3	50	50				
	70	T2 abort	60	not an update log record				

2. Describe the actions taken to rollback transaction T2.

Step 1: restore P3 to the before-image stored in LSN 60 Step 2: restore P5 to the before-image stored in LSN 50 Step 3: restore P5 to the before-image stored in LSN 20

3. Show the log after T2 is rolled back, including all prevLSN and undonextLSN values in log records.

The log tail would look something like:

LSN	prevLSN	transld	tupe	pageld	undo Nex+LSN
80	70	T2	CLR	P3	50
90	80	T2	CLR	P5	20
100	90	T2	CLR	P5	_
110	100	T2	END	-	-