Student ID:

Student Name:

Unit Code:

Applied Class No:

Comments for your marker:

(a)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TIME** | **TRANS** | **ACTION** | **A** | **B** | **C** | **D** |
| **0** | **T1** | **UPDATE A** |  |  |  |  |
| **1** | **T1** | **UPDATE B** |  |  |  |  |
| **2** | **T2** | **READ C** |  |  |  |  |
| **3** | **T2** | **READ D** |  |  |  |  |
| **4** | **T3** | **UPDATE A** |  |  |  |  |
| **5** | **T2** | **UPDATE C** |  |  |  |  |
| **6** | **T1** | **ROLLBACK** |  |  |  |  |
| **7** | **T3** | **UPDATE C** |  |  |  |  |
| **8** | **T2** | **UPDATE B** |  |  |  |  |
| **9** | **T2** | **UPDATE A** |  |  |  |  |

* Does a deadlock exist in this transaction sequence?
* Explain why you came to this conclusion.

(b)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TRL ID** | **TRX NUM** | **PREV PTR** | **NEXT PTR** | **OPERATION** | **TABLE** | **ROW ID** | **ATTRIBUTE** | **BEFORE VALUE** | **AFTER VALUE** |
|  |  |  |  |  |  |  |  |  |  |

…. add extra rows as needed