

CHRIST (Deemed to be University)

Department of Computer Science

Master of Computer Applications

Course: MCA513-1 - Advanced Database Technologies

Exercise No: LAB Exercise – 6

Date of assignment: 05-08-2025

Date of submission: 10.08.2025

Exercise: Simulate the Timestamp Ordering (TO) Concurrency Control Algorithm in your respective business domain using SQL, where multiple transactions access concurrently.

1. Schema Design (Table to simulate the data items and track transaction)
2. Insert a data item with initial values, timestamp and Insert two transactions with logical timestamps
3. Simulate the read operation with timestamp ordering logic
4. Simulate the write operation with timestamp ordering logic
5. A brief explanation of how each TO operation is demonstrated.

Evaluation Scheme: (Total 10 Marks)

Correctness and Demonstration	(5 marks)
Concept Clarity (Viva)	(3 marks)
Initiative & Effort (self-learning)	(2 marks)

General Instruction:

1. Create a Word document and paste all the answers. The file name should be your register number followed by lab No. Example: 2547101_Lab6
2. Upload the answer document in Google Classroom on or before the deadline mentioned.