SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)
DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE CODE: DJS22ITL306 **DATE:5/12/2023**
COURSE NAME: DBMS **CLASS: S.Y. BTech (IT) I1-Batch1**

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Experiment No:9

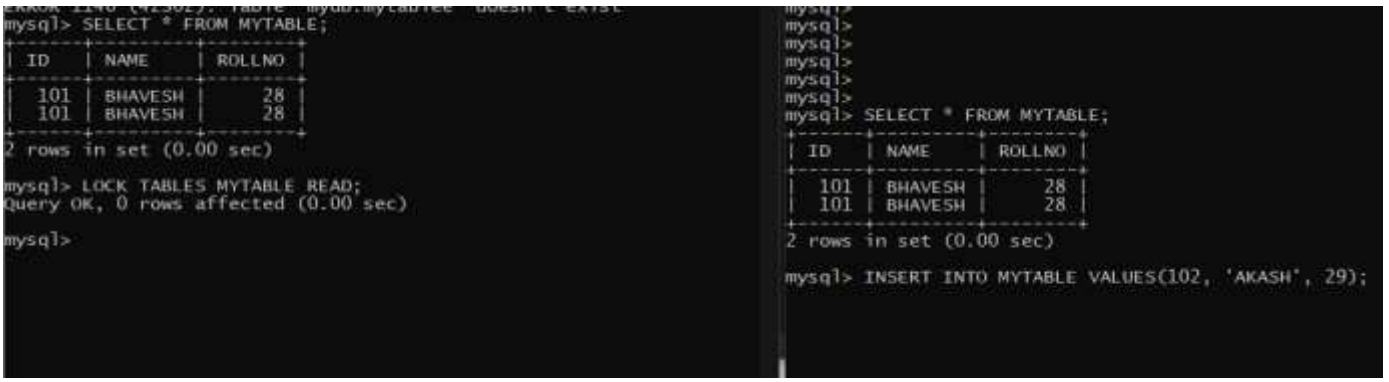
To Examine the consistency of database using concurrency control technique (Locks)

----------EXERCISE----------

1. When user 1 locks in read mode, user 2 can read without any conflict but cannot write as read – write is a conflict.
   User 2 can read safely.

2. Read – write conflict

When user 1 is locked in read mode, user 2 cannot perform write operations.



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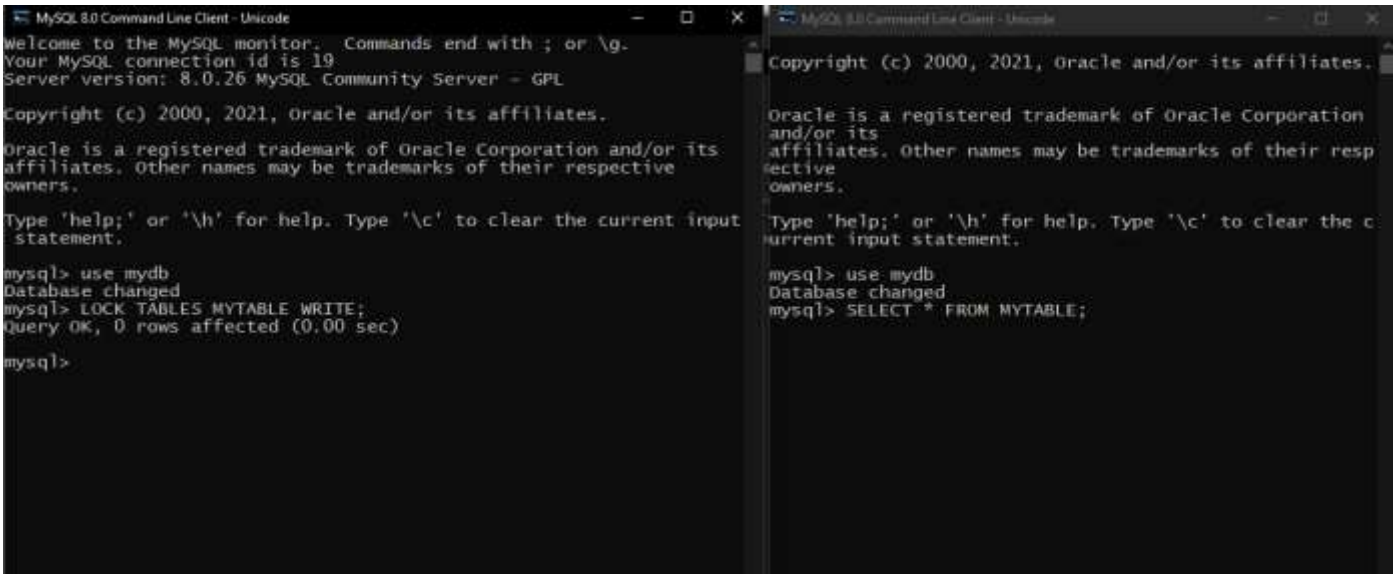
User 2 waits until the lock is removed by user 1.

Then user 2 successfully performs write operation.

Similarly, if user 1 is locked in write mode, user 2 cannot perform read operations.

User 1 in write mode.



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3. Write – Write conflict

Both users cannot write on the same resource at the same time as it is a conflict.