

		<b>Hope Foundation's, Finolex Academy of Management and Technology, Ratnagiri</b>	
		<b>Department of Information Technology</b>	
Subject name: OLAP LAB			Subject Code: ITL503
Class	TE IT	Semester – V (CBCGS)	Academic year: 2018-19
Name of Student	Kazi Jawwad A Rahim		QUIZ Score :
Roll No	32	Assignment/Experiment No.	01
Title: <b>Implementation of Two Phase locking protocol.</b>			

<b>1. Course objectives applicable:</b> <b>LOB1-</b> Understand the stages and properties of transactions and the concepts involved with Serializability.
<b>2. Course outcomes applicable:</b> <b>LO1-</b> Apply the knowledge of Concurrency control management to simulate Two Phase Locking protocol.
<b>3. Learning Objectives:</b> <ul style="list-style-type: none"> <li>To be able to apply the knowledge of Concurrency control management.</li> <li>To be able to understand the working of Two Phase Commit protocol.</li> </ul>
<b>3. Practical applications of the assignment/experiment:</b> <ul style="list-style-type: none"> <li>Wherever the distributed database management system is utilized, the 2 PC or 3 PC protocols are implemented to achieve atomicity. E.g. Banking system.</li> <li></li> </ul>
<b>5. Prerequisites:</b> Working of Client Server communication, Transaction properties.
<b>6. Hardware Requirements:</b> 1. PC with 4GB RAM, 500GB HDD,
<b>7. Software Requirements:</b> 1. Programming language , Java

<b>8. Quiz Questions (if any): (Online Exam will be taken separately batch wise, attach the certificate/ Marks obtained)</b> <ol style="list-style-type: none"> <li>What is transaction?</li> <li>List all the properties of transaction.</li> <li>What is atomicity?</li> </ol>
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<b>9. Experiment/Assignment Evaluation:</b>				
Sr. No.	Parameters	Marks obtained	Out of	
1	Technical Understanding (Assessment may be done based on Q & A <u>or</u> any other relevant method.) Teacher should mention the other method used -		6	
2	Neatness/presentation		2	
3	Punctuality		2	
Date of performance (DOP)			Total marks obtained	10
Date of checking (DOC)			Signature of teacher	

## Results:

```
E:\2-Phase>java Server  
  
Now Total clients are : 1  
  
Now Total clients are : 2  
  
Now Total clients are : 3  
  
From 'Jawwad' : COMMIT  
  
Waiting for inputs from other clients.  
  
From 'ABC' : COMMIT  
  
Waiting for inputs from other clients.  
  
From 'XYZ' : COMMIT  
  
Committed....
```

```
E:\2-Phase>java Client  
  
Enter your name.  
Jawwad  
  
Welcome Jawwad to this 2 Phase Application.  
  
You will receive a vote Request now...  
  
VOTE_REQUEST  
  
Please enter COMMIT or ABORT to proceed :  
commit  
  
---A new user ABC entered the Appilcation---  
  
---A new user XYZ entered the Appilcation---  
  
GLOBAL_COMMIT
```

```
Enter your name.  
  
---A new user Jawwad entered the Appilcation---  
  
---A new user ABC entered the Appilcation---  
XYZ  
  
Welcome XYZ to this 2 Phase Application.  
  
You will receive a vote Request now...  
  
VOTE_REQUEST  
  
Please enter COMMIT or ABORT to proceed :  
commit  
  
GLOBAL_COMMIT
```

```
Enter your name.  
  
---A new user Jawwad entered the Appilcation---  
ABC  
  
Welcome ABC to this 2 Phase Application.  
  
You will receive a vote Request now...  
  
VOTE_REQUEST  
  
Please enter COMMIT or ABORT to proceed :  
commit  
  
---A new user XYZ entered the Appilcation---  
  
GLOBAL_COMMIT
```

```
E:\2-Phase>java Server  
  
Now Total clients are : 1  
  
Now Total clients are : 2  
  
Now Total clients are : 3  
  
From 'XYZ' : COMMIT  
  
Waiting for inputs from other clients.  
  
From 'ABC' : COMMIT  
  
Waiting for inputs from other clients.  
  
From 'Jawwad' : ABORT  
  
Since aborted we will not wait for inputs from other clients.  
  
Aborted....
```

```
E:\2-Phase>java Client  
  
Enter your name.  
Jawwad  
  
Welcome Jawwad to this 2 Phase Application.  
  
You will receive a vote Request now...  
  
VOTE_REQUEST  
  
Please enter COMMIT or ABORT to proceed :  
  
---A new user ABC entered the Appilcation---  
  
---A new user XYZ entered the Appilcation---  
abort  
  
GLOBAL_ABORT
```

```
E:\2-Phase>java Client

Enter your name.

---A new user Jawwad entered the Appilcation---
ABC

Welcome ABC to this 2 Phase Application.

You will receive a vote Request now...

VOTE_REQUEST

Please enter COMMIT or ABORT to proceed :

---A new user XYZ entered the Appilcation---
commit

GLOBAL_ABORT
```

```
E:\2-Phase>java Client

Enter your name.

---A new user Jawwad entered the Appilcation---

---A new user ABC entered the Appilcation---
XYZ

Welcome XYZ to this 2 Phase Application.

You will receive a vote Request now...

VOTE_REQUEST

Please enter COMMIT or ABORT to proceed :
commit

GLOBAL_ABORT
```

#### References :

1. <https://www.javatpoint.com/mysql-tutorial>
2. Advance Database Management system by Rini Chakrabarti.