



**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

NAME: Ayush Vinod Upadhyay  
ROLL NO: I025  
SAP ID: 60003220131  
BRANCH: Information Technology

**Experiment No:8**

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

-----**EXERCISE**-----

1.

```
CREATE TABLE EMPLOYEE(  
    FNAME VARCHAR(20),  
    LNAME VARCHAR(20),  
    SALARY VARCHAR(20),  
    DEPT VARCHAR(20),  
    DOB DATE,  
    CITY VARCHAR(20)
```

);

2.

```
INSERT INTO EMPLOYEE VALUES('ADAM', 'A', 1000, 'ACCOUNTS', 07-11-2022, 'MUMBAI');  
INSERT INTO EMPLOYEE VALUES('BANDA', 'B', 10, 'HR', 07-11-2022, 'MUMBAI');  
INSERT INTO EMPLOYEE VALUES('CAROL', 'C', 10, 'ADMIN', 07-11-2022, 'MUMBAI');  
INSERT INTO EMPLOYEE VALUES('GREENE', 'G', 5000, 'TECHNICAL', 07-11-2022, 'MUMBAI');  
INSERT INTO EMPLOYEE VALUES('TOM', 'T', 500, 'TECHNICAL', 07-11-2022, 'MUMBAI');
```



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3.

SAVEPOINT A;

INSERT INTO EMPLOYEE VALUES('RAHUL', 'C', 10, 'HR', 08-11-2022, 'MUMBAI');

SAVEPOINT B;

INSERT INTO EMPLOYEE VALUES('RAMESH', 'F', 10, 'HR', 08-11-2022, 'MUMBAI');

SAVEPOINT C;

EMPLOYEE				
FNAME	LNAME	SALARY	DEPT	D
ADAM	A	1000	ACCOUNTS	-2
BANDA	B	10	HR	-2
CAROL	C	10	ADMIN	-2
GREENE	G	5000	TECHNICAL	-2
TOM	T	500	TECHNICAL	-2
RAHUL	C	10	HR	-2
RAMESH	F	10	HR	-2

4. ROLLBACK TO B;

EMPLOYEE				
FNAME	LNAME	SALARY	DEPT	
ADAM	A	1000	ACCOUNTS	
BANDA	B	10	HR	
CAROL	C	10	ADMIN	
GREENE	G	5000	TECHNICAL	
TOM	T	500	TECHNICAL	
RAHUL	C	10	HR	



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ROLLBACK TO A;

EMPLOYEE			
FNAME	LNAME	SALARY	DEPT
ADAM	A	1000	ACC
BANDA	B	10	HR
CAROL	C	10	ADM
GREENE	G	5000	TECH
TOM	T	500	TECH

5.COMMIT;

INSERT INTO EMPLOYEE VALUES('RAAJ', 'P', 500, 'TECHNICAL', 07-11-2022, 'MUMBAI');

SAVEPOINT P;

EMPLOYEE			
FNAME	LNAME	SALARY	DEPT
ADAM	A	1000	ACCOUNTS
BANDA	B	10	HR
CAROL	C	10	ADMIN
GREENE	G	5000	TECHNICAL
TOM	T	500	TECHNICAL
RAAJ	P	500	TECHNICAL



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UPDATE EMPLOYEE

SET LNAME='PAUL'

WHERE FNAME = 'BANDA';

SAVEPOINT X;

EMPLOYEE				
FNAME	LNAME	SALARY	DEPT	
ADAM	A	1000	ACCOUNTS	
BANDA	PAUL	10	HR	
CAROL	C	10	ADMIN	
GREENE	G	5000	TECHNICAL	
TOM	T	500	TECHNICAL	
RAAJ	P	500	TECHNICAL	

UPDATE EMPLOYEE

SET LNAME='PAUL'

WHERE FNAME = 'GREENE';

EMPLOYEE				
FNAME	LNAME	SALARY	DEPT	
ADAM	A	1000	ACCOUNTS	
BANDA	PAUL	10	HR	
CAROL	C	10	ADMIN	
GREENE	PAUL	5000	TECHNICAL	
TOM	T	500	TECHNICAL	
RAAJ	P	500	TECHNICAL	



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ROLLBACK TO X;

EMPLOYEE				
FNAME	LNAME	SALARY	DEPT	
ADAM	A	1000	ACCOUNTS	
BANDA	PAUL	10	HR	
CAROL	C	10	ADMIN	
GREENE	G	5000	TECHNICAL	
TOM	T	500	TECHNICAL	
RAAJ	P	500	TECHNICAL	

10.

UPDATE EMPLOYEE

SET SALARY = 1.05\*SALARY;

SAVEPOINT A;

UPDATE EMPLOYEE

SET SALARY = 1.05\*SALARY;

SAVEPOINT B;

UPDATE EMPLOYEE

SET SALARY = 1.05\*SALARY;

SAVEPOINT C;