S.Y. BTech (IT)

SUB: DBMS LAB

Experiment No:8

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

SAP ID: 60003220045	CLASS:I1
NAME: ANISH SHARMA	BATCH:1
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, 'MUMBA	N');
INSERT INTO EMPLOYEE VALUES('CAROL', 'C', 10, 'ADMIN', 07-11-2022, 'MUN	MBAI');
INSERT INTO EMPLOYEE VALUES('GREENE', 'G', 5000, 'TECHNICAL', 07-11-202	22, 'MUMBAI');
INSERT INTO EMPLOYEE VALUES('TOM', 'T', 500, 'TECHNICAL', 07-11-2022, 'N	//UMBAI');

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	Α	1000	ACCOUNTS	-2
BANDA	В	10	HR	-2
CAROL	С	10	ADMIN	-2
GREENE	G	5000	TECHNICAL	-2
том	Т	500	TECHNICAL	-2
RAHUL	С	10	HR	-2
RAMESH	F	10	HR	-2

4.

ROLLBACK TO B;

EMPLOYEE			
FNAME	LNAME	SALARY	DEPT
ADAM	Α	1000	ACCOUNTS
BANDA	В	10	HR
CAROL	С	10	ADMIN
GREENE	G	5000	TECHNICAL
том	Т	500	TECHNICAL
RAHUL	С	10	HR

ROLLBACK TO A;

EMPLOYEE			
FNAME	LNAME	SALARY	DEPT
ADAM	A	1000	ACC
BANDA	В	10	HR
CAROL	С	10	ADM
GREENE	G	5000	TECH
том	Т	500	TECH

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	В	10	HR
CAROL	С	10	ADMIN
GREENE	G	5000	TECHNICAL
том	Т	500	TECHNICAL
RAAJ	P	500	TECHNICAL

UPDATE EMPLOYEE

SET LNAME='PAUL'

WHERE FNAME = 'BANDA';

SAVEPOINT X;

EMPLOYEE				
FNAME	LNAME	SALARY	DEPT	ı
ADAM	Α	1000	ACCOUNTS	
BANDA	PAUL	10	HR	
CAROL	С	10	ADMIN	
GREENE	G	5000	TECHNICAL	
том	Т	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	С	10	ADMIN
GREENE	PAUL	5000	TECHNICAL
TOM	Т	500	TECHNICAL
RAAJ	P	500	TECHNICAL

ROLLBACK TO X;

EMPLOYEE				
FNAME	LNAME	SALARY	DEPT	ľ
ADAM	Α	1000	ACCOUNTS	-
BANDA	PAUL	10	HR	-
CAROL	С	10	ADMIN	-
GREENE	G	5000	TECHNICAL	-
том	Т	500	TECHNICAL	-
RAAJ	Р	500	TECHNICAL	-

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;