Name :	Aaditya Rajput
UID :	23BCS11727
Section :	622 (B)

Experiment 4.II

PART A:

CREATE TABLE StudentEnrollments (

   enrollment_id INT AUTO_INCREMENT PRIMARY KEY,

   student_name VARCHAR(100),

   course_id VARCHAR(10),

   enrollment_date DATE,

   UNIQUE (student_name, course_id) -- prevents duplicate enrollment

);

INSERT INTO StudentEnrollments (student_name, course_id, enrollment_date)

VALUES ('Ashish', 'CSE101', '2024-07-01');

START TRANSACTION;

INSERT INTO StudentEnrollments (student_name, course_id, enrollment_date)

VALUES ('Ashish', 'CSE101', '2024-07-01');

COMMIT;

START TRANSACTION;

INSERT INTO StudentEnrollments (student_name, course_id, enrollment_date)

VALUES ('Ashish', 'CSE101', '2024-07-01'); -- ERROR: Duplicate entry

COMMIT;

enrollment_id	student_name	course_id	enrollment_date
1	Ashish	CSE101	2024-07-01
2	Smaran	CSE102	2024-07-01
3	Vaibhav	CSE101	2024-07-01

PART B:

START TRANSACTION;

SELECT * FROM StudentEnrollments

WHERE student_name = 'Ashish' AND course_id = 'CSE101'

FOR UPDATE;

START TRANSACTION;

UPDATE StudentEnrollments

SET enrollment_date = '2024-07-15'

WHERE student_name = 'Ashish' AND course_id = 'CSE101';

PART C:

START TRANSACTION;

UPDATE StudentEnrollments

SET enrollment_date = '2024-08-01'

WHERE student_name = 'Ashish' AND course_id = 'CSE101';

START TRANSACTION;

UPDATE StudentEnrollments

SET enrollment_date = '2024-09-01'

WHERE student_name = 'Ashish' AND course_id = 'CSE101';

COMMIT;

enrollment_id	student_name	course_id	enrollment_date
1	Ashish	CSE101	2024-07-01