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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