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|----------------|-------------------|
| Name | Shubham |
| UID | 23BCS10290 |
| Section | 610-A |
| Subject | ADBMS |

Practice-2

QUES1:

ANS1:

```
DROP TABLE IF EXISTS StudentEnrollments;
```

```
CREATE TABLE StudentEnrollments (
```

```
    enrollment_id INT PRIMARY KEY,
```

```
    student_name VARCHAR(100) NOT NULL,
```

```
    course_id VARCHAR(10) NOT NULL,
```

```
    enrollment_date DATE NOT NULL,
```

```
    CONSTRAINT unique_student_course UNIQUE (student_name, course_id)
```

```
);
```

```
START TRANSACTION;
```

```
INSERT INTO StudentEnrollments VALUES (1, 'Ashish', 'CSE101', '2024-07-01');
```

```
INSERT INTO StudentEnrollments VALUES (2, 'Smaran', 'CSE102', '2024-07-01');
```

```
INSERT INTO StudentEnrollments VALUES (3, 'Vaibhav', 'CSE101', '2024-07-01');
```

```
COMMIT;
```

```
START TRANSACTION;
```

```
INSERT INTO StudentEnrollments VALUES (4, 'Ashish', 'CSE101', '2024-07-02');
```

```
ROLLBACK;
```

```
START TRANSACTION;
```

```
SELECT * FROM StudentEnrollments
```

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

```
FOR UPDATE;
```

```
START TRANSACTION;
```

```
INSERT INTO StudentEnrollments VALUES (4, 'Ashish', 'CSE101', '2024-07-02');
```

```
COMMIT;
```

```
START TRANSACTION;
```

```
SELECT * FROM StudentEnrollments
```

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

```
FOR UPDATE;
```

```
START TRANSACTION;
```

```
SELECT * FROM StudentEnrollments
```

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

```
FOR UPDATE;
```

```
UPDATE StudentEnrollments
```

```
SET enrollment_date = '2024-07-10'
```

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

```
COMMIT;
```

```
START TRANSACTION;
```

```
UPDATE StudentEnrollments
```

```
SET enrollment_date = '2024-07-15'
```

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

```
COMMIT;
```

```
SELECT * FROM StudentEnrollments
```

OUTPUT:

| enrollment_id | student_name | course_id | enrollment_date |
|---------------|--------------|-----------|--------------------------|
| 2 | Smaran | CSE102 | 2024-07-01T00:00:00.000Z |
| 3 | Vaibhav | CSE101 | 2024-07-01T00:00:00.000Z |
| 4 | Ashish | CSE101 | 2024-07-15T00:00:00.000Z |
| | | | |