TRANSACTION MANAGEMENT

1)Enrolling students:

Enrollment table : [student id - 121, enrollment id - 12]

```
Enrollment ID: 2, Student ID: 102, Course ID: 19, Enrollment Date: 10-02-2025 00:00:00

Enrollment ID: 3, Student ID: 103, Course ID: 20, Enrollment Date: 22-05-2024 00:00:00

Enrollment ID: 4, Student ID: 104, Course ID: 15, Enrollment Date: 05-08-2025 00:00:00

Enrollment ID: 5, Student ID: 105, Course ID: 12, Enrollment Date: 18-06-2024 00:00:00

Enrollment ID: 6, Student ID: 106, Course ID: 11, Enrollment Date: 12-10-2025 00:00:00

Enrollment ID: 7, Student ID: 107, Course ID: 14, Enrollment Date: 25-03-2024 00:00:00

Enrollment ID: 8, Student ID: 108, Course ID: 13, Enrollment Date: 01-12-2025 00:00:00

Enrollment ID: 10, Student ID: 110, Course ID: 17, Enrollment Date: 20-11-2025 00:00:00

Enrollment ID: 11, Student ID: 112, Course ID: 13, Enrollment Date: 20-01-2025 00:00:00

Enrollment ID: 12, Student ID: 112, Course ID: 15, Enrollment Date: 06-04-2025 00:00:00
```

Payment table: [student id - 121, payment id - 14]

```
PaymentID: 1, StudentID: 101, Amount: 700.00, Payment Date: 20-07-2024 00:00:00

PaymentID: 2, StudentID: 102, Amount: 600.00, Payment Date: 15-02-2025 00:00:00

PaymentID: 3, StudentID: 103, Amount: 550.00, Payment Date: 01-06-2024 00:00:00

PaymentID: 4, StudentID: 104, Amount: 580.00, Payment Date: 10-08-2025 00:00:00

PaymentID: 5, StudentID: 105, Amount: 620.00, Payment Date: 01-07-2024 00:00:00

PaymentID: 6, StudentID: 106, Amount: 530.00, Payment Date: 15-10-2025 00:00:00

PaymentID: 7, StudentID: 107, Amount: 570.00, Payment Date: 01-04-2024 00:00:00

PaymentID: 8, StudentID: 108, Amount: 590.00, Payment Date: 10-12-2025 00:00:00

PaymentID: 10, StudentID: 110, Amount: 540.00, Payment Date: 25-11-2025 00:00:00

PaymentID: 11, StudentID: 106, Amount: 250.00, Payment Date: 10-02-2025 00:00:00

PaymentID: 12, StudentID: 121, Amount: 1500.00, Payment Date: 05-03-2025 00:00:00

PaymentID: 14, StudentID: 121, Amount: 2500.00, Payment Date: 06-04-2025 00:00:00
```

Enrollment table : [student id - 121, enrollment id - 12]

Payment table: [student id - 121, payment id - 14]

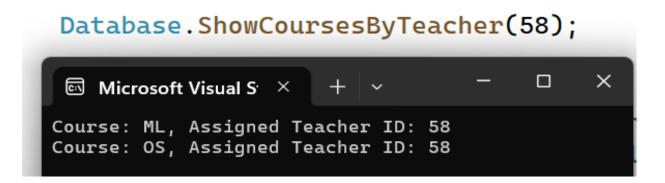
_	-		
enrollment_id	student_id	course_id	enrollment_date
2	102	19	2025-02-10
3	103	20	2024-05-22
4	104	15	2025-08-05
5	105	12	2024-06-18
6	106	11	2025-10-12
7	107	14	2024-03-25
8	108	13	2025-12-01
10	110	17	2025-11-20
11	112	13	2025-01-29
12	121	15	2025-04-06
	2 3 4 5 6 7 8 10	enrollment_id student_id 2 102 3 103 4 104 5 105 6 106 7 107 8 108 10 110 11 112	enrollment_id student_id course_id 2 102 19 3 103 20 4 104 15 5 105 12 6 106 11 7 107 14 8 108 13 10 110 17 11 112 13

		and and the		
	payment_id	student_id	amount	payment_date
1	1	101	700.00	2024-07-20
2	2	102	600.00	2025-02-15
3	3	103	550.00	2024-06-01
4	4	104	580.00	2025-08-10
5	5	105	620.00	2024-07-01
6	6	106	530.00	2025-10-15
7	7	107	570.00	2024-04-01
8	8	108	590.00	2025-12-10
9	10	110	540.00	2025-11-25
10	11	106	250.00	2025-02-10
11	12	107	200.00	2025-03-05
12	13	121	1500.00	2025-01-14
13	14	121	2500.00	2025-04-06

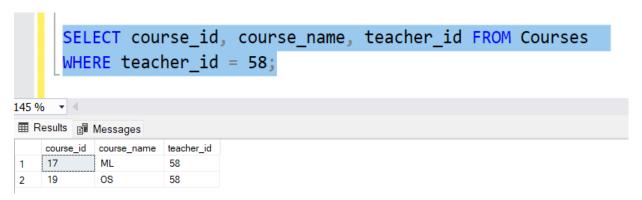
2) Assigning teacher:

Teacher id 58 is now assigned to course id 17

C# output:



SQL Server Output:



3) Recording payments independently

Payment table:

Output in C#:

Student id - 104, payment id - 15, Amount - 1300

```
PaymentID: 1, StudentID: 101, Amount: 700.00, Payment Date: 20-07-2024 00:00:00

PaymentID: 2, StudentID: 102, Amount: 600.00, Payment Date: 15-02-2025 00:00:00

PaymentID: 3, StudentID: 103, Amount: 550.00, Payment Date: 01-06-2024 00:00:00

PaymentID: 4, StudentID: 104, Amount: 580.00, Payment Date: 10-08-2025 00:00:00

PaymentID: 5, StudentID: 105, Amount: 620.00, Payment Date: 01-07-2024 00:00:00

PaymentID: 6, StudentID: 106, Amount: 530.00, Payment Date: 15-10-2025 00:00:00

PaymentID: 7, StudentID: 107, Amount: 570.00, Payment Date: 01-04-2024 00:00:00

PaymentID: 8, StudentID: 108, Amount: 590.00, Payment Date: 10-12-2025 00:00:00

PaymentID: 10, StudentID: 110, Amount: 540.00, Payment Date: 10-02-2025 00:00:00

PaymentID: 12, StudentID: 106, Amount: 250.00, Payment Date: 10-02-2025 00:00:00

PaymentID: 13, StudentID: 121, Amount: 1500.00, Payment Date: 14-01-2025 00:00:00

PaymentID: 14, StudentID: 121, Amount: 1500.00, Payment Date: 06-04-2025 00:00:00

PaymentID: 15, StudentID: 104, Amount: 1300.00, Payment Date: 06-04-2025 00:00:00
```

SQL Server Output:

Student id - 104, payment id - 15, Amount - 1300

	payment_id	student_id	amount	payment_date
1	1	101	700.00	2024-07-20
2	2	102	600.00	2025-02-15
3	3	103	550.00	2024-06-01
4	4	104	580.00	2025-08-10
5	5	105	620.00	2024-07-01
6	6	106	530.00	2025-10-15
7	7	107	570.00	2024-04-01
8	8	108	590.00	2025-12-10
9	10	110	540.00	2025-11-25
10	11	106	250.00	2025-02-10
11	12	107	200.00	2025-03-05
12	13	121	1500.00	2025-01-14
13	14	121	2500.00	2025-04-06
14	15	104	1300.00	2025-04-06