ASSIGNMENT 2

STUDENT MANAGEMENT SYSTEM

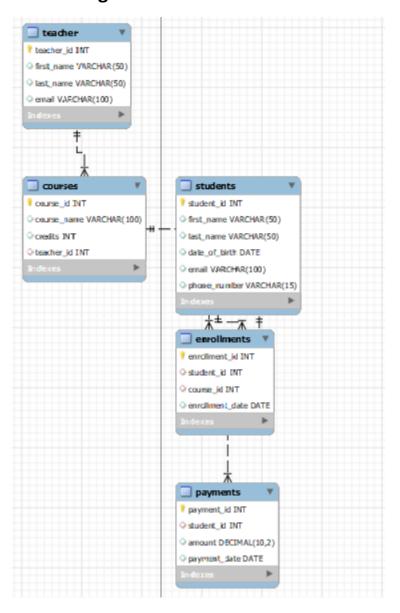
Task1:

1,2&4.

```
/* task1*/
 2 •
        CREATE DATABASE SISDB;
         USE SISDB;
  5 ● ○ CREATE TABLE Students (
           student_id INT PRIMARY KEY,
            first_name VARCHAR(50),
            last_name VARCHAR(50),
  8
  9
            date_of_birth DATE,
            email VARCHAR(100),
 10
 11
             phone_number VARCHAR(15)
       ٠);
 12
13
 14 • \bigcirc CREATE TABLE Teacher (
            teacher_id INT PRIMARY KEY,
15
            first_name VARCHAR(50),
 16
            last_name VARCHAR(50),
 17
            email VARCHAR(100)
 18
 19
       ٠);
 20
  28
  21 • CREATE TABLE Courses (
             course_id INT PRIMARY KEY,
              course_name VARCHAR(108),
              credits INT.
             teacher_id INT,
  25
              FOREIGN KEY (teacher_id) REFERENCES Teacher(teacher_id)
  28
  29 • CREATE TABLE Enrollments (
              enrollment_id INT PRIMARY KEY,
             student_id INT,
             course_id INT,
             enrollment_date DATE,
  33
             FOREIGN KEY (student_id) REFERENCES Students(student_id) ON DELETE CASCADE,
  35
              FOREIGN KEY (course_id) REFERENCES Courses(course_id)
  36
  37
  38 • CREATE TABLE Payments (
             payment_id INT PRIMARY KEY,
              student id INT.
             amount DECIMAL(10, 2),
  41
  42
              FOREIGN KEY (student_id) REFERENCES Students(student_id) ON DELETE SET NULL
```

Ou	ıtput								
ð	Ac	ction	Output	•					
	#		Time	Action				Message	Duration / Fetch
0		1 1	16:15:27	CREATE DATABASE SISDB	3			1 row(s) affected	0.015 sec
0		2	16:15:30	USE SISDB				0 row(s) affected	0.000 sec
0		3	16:15:32	CREATE TABLE Students (student_id INT PRIMARY KEY,	first_name VARCHAR(50),	last_name VARCH	0 row(s) affected	0.047 sec
0		4	16:15:35	CREATE TABLE Teacher (teacher_id INT PRIMARY KEY,	first_name VARCHAR(50),	last_name VARCH	0 row(s) affected	0.344 sec
0		5	16:15:40	CREATE TABLE Courses (course_id INT PRIMARY KEY,	course_name VARCHAR(100)	, credits INT, t	0 row(s) affected	0.047 sec
0		6	16:15:44	CREATE TABLE Enrollments	(enrollment_id INT PRIMARY K	EY, student_id INT, cours	se_id INT, enroll	0 row(s) affected	0.078 sec
0		7	16:15:47	CREATE TABLE Payments (payment_id INT PRIMARY KEY	student_id INT, amount l	DECIMAL(10, 2),	0 row(s) affected	0.063 sec

3.ERD Diagram.



```
🚞 🖫 | 🐓 💯 👰 🔘 | 🟡 | 💿 🚳 | Limit to 1000 rows 🔻 | 埃 | 🥩 🔍 🐧 🖘
  46 •
            INSERT INTO Students VALUES
            (1, 'David', 'Curran', '1990-01-15', 'davidcurran@email.com', '23514269842'),
            (2, 'Steve', 'Smith', '1992-05-20', 'jane.smith@email.com', '9876543210'),
            (3, 'Michael', 'Johnson', '1991-08-10', 'michael.johnson@email.com', '5551234567'),
            (4, 'Seam', 'Williams', '1993-03-25', 'emily.williams@email.com', '1112223333'),
            (5, 'Daniel', 'Vittori', '1989-11-02', 'daniel.brown@email.com', '9998887777'),
  51
            (6, 'Olivia', 'Miller', '1995-04-12', 'olivia.miller@email.com', '3334445555'),
            (7, 'Ethan', 'Davis', '1994-09-18', 'ethan.davis@email.com', '6667778888'),
            (8, 'Ava', 'Jones', '1992-06-30', 'ava.jones@email.com', '4445556666'),
  55
            (9, 'Logan', 'Paul', '1998-12-85', 'logan.anderson@email.com', '2223334444'),
            (10, 'Sophia', 'Moore', '1993-02-28', 'sophia.moore@email.com', '8889990000');
  58 •
            INSERT INTO Teacher VALUES
            (1, 'Professor', 'Smith', 'prof.smith@email.com'),
  59
            (2, 'Dr.', 'Johnson', 'dr.johnson@email.com'),
            (3, 'Ms.', 'Williams', 'ms.williams@email.com'),
  62
            (4, 'Mr.', 'Davis', 'mr.davis@email.com'),
            (5, 'Professor', 'Moore', 'prof.moore@email.com'),
  63
            (6, 'Dr.', 'Anderson', 'dr.anderson@email.com'),
            (7, 'Mrs.', 'Brown', 'mrs.brown@email.com'),
            (8, 'Ms.', 'Miller', 'ms.miller@email.com'),
(9, 'Mr.', 'Jones', 'mr.jones@email.com'),
  66
  67
            (10, 'Mrs.', 'Doe', 'mrs.doe@email.com');
  68
  70 •
            INSERT INTO Courses VALUES
            (101, 'Introduction to Computer Science', 3, 1),
  71
            (182, 'Mathematics for Engineers', 4, 2),
            (103, 'History of Art', 3, 3),
            (184, 'Physics for Beginners', 4, 1),
            (105, 'Business Ethics', 3, 2),
            (106, 'Literature and Society', 3, 3),
            (107, 'Chemistry Fundamentals', 4, 2),
            (108, 'Psychology 101', 3, 3),
  79
            (109, 'Data Structures', 4, 1),
            (110, 'Introduction to Marketing', 3, 2);
🚞 🖫 | 🗲 💯 👰 🕛 | 🚱 | ② 🔞 🔞 | Limit to 1000 rows → | 🌟 | 🥩 🔍 🕦 🖃
 82 •
         INSERT INTO Enrollments VALUES
 83
          (1, 1, 101, '2023-01-01'),
          (2, 2, 102, '2023-04-02').
 84
         (3, 3, 103, '2023-03-03'),
 85
         (4, 4, 104, '2023-02-04'),
         (5, 5, 105, '2023-10-05'),
 RR
         (6, 6, 106, '2023-09-06'),
 89
         (7, 7, 107, '2023-02-07'),
 90
         (8, 8, 108, '2023-04-08'),
         (9, 9, 109, '2023-01-09'),
 91
         (10, 10, 110, '2023-03-10'),
 93
          (11, 1, 107, '2023-08-05'),
 94
         (12, 8, 104, '2023-05-12');
 95
 96
        INSERT INTO Payments VALUES
         (1, 1, 500.00, '2023-01-01'),
          (2, 2, 750.00, '2023-04-02'),
 99
          (3, 3, 600.00, '2023-03-03'),
100
         (4, 4, 800.00, '2023-02-04'),
         (5, 5, 550.00, '2023-10-05'),
101
         (6, 6, 700.00, '2023-09-06'),
102
         (7, 7, 850.00, '2023-02-07'),
          (8, 8, 600.00, '2023-04-08'),
105
          (9, 9, 700.00, '2023-01-09'),
186
          (10, 10, 500.00, '2023-03-10'),
         (11, 1, 500.00, '2023-08-01'),
107
         (12, 8, 600.00, '2023-05-12');
108
```

ď	Action Output		•		
		Time	Action	Message	Duration / Fetch
9	1	16:23:19	INSERT INTO Students VALUES (1, 'David', 'Curran', '1990-01-15', 'davidcurran@email.com', '23514269842'), (2,	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.015 sec
9	2	16:23:31	INSERT INTO Teacher VALUES (1, "Professor", "Smith", 'prof.smith@email.com"), (2, "Dr.", 'Johnson', 'dr.johnson@	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.047 sec
9	3	16:23:34	INSERT INTO Courses VALUES (101, "Introduction to Computer Science", 3, 1), (102, "Mathematics for Engineers"	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
9	4	16:23:38	INSERT INTO Enrollments VALUES (1, 1, 101, '2023-01-01'), (2, 2, 102, '2023-04-02'), (3, 3, 103, '2023-03-03'), (4	12 row(s) affected Records: 12 Duplicates: 0 Warnings: 0	0.016 sec
2	5	16:23:42	INSERT INTO Payments VALUES (1, 1, 500.00, '2023-01-01'), (2, 2, 750.00, '2023-04-02'), (3, 3, 600.00, '2023-0	12 row(s) affected Records: 12 Duplicates: 0 Warnings: 0	0.000 sec

TASK2:

1.

```
SQLAdditions
 My Snippets
                                                                                                                                                           - | 場 報 名
 112
 113
 115 • INSERT INTO Students (student_id, first_name, last_name, date_of_birth, email, phone_number)
 116
        VALUES (11, 'John', 'Doe', '1995-08-15', 'john.doe@example.com', '1234567890');
 117
 118
                                                                                                                                              Context Help Snippets
119
Output
Action Output
# Time Action Message
1 16:25:24 INSERT INTO Students (student_id, first_name, last_name, date_of_bith, email, phone_number) VALUES (11, 'Jo... 1 row(s) affected
                                                                                                                                                               0.015 sec
```

2.

```
SQLAdditions

SQLAdditions

My Snippets

My
```

```
SQLAdditions
My Snippets • | 🖏 🗞 🗞
126
127 /*3*/
128 • UPDATE Teacher
129 SET email = 'new.email@example.com'
     WHERE teacher_id = 1;
130
                                                                                                                           Context Help Snippets
131
Action Output
# Time Action
1 16.28:22 UPDATE Teacher SET email = 'hew.email@example.com' WHERE teacher_id = 1
                                                                                                                                          Duration / Fetch
                                                                           Message
1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
                                                                                                                                         0.000 sec
```

```
SQLAdditions
                                                                                                              My Snippets ▼ | 🖏 🗞 🗞
132
133
134
135 /*4*/
136 • DELETE FROM Enrollments
137 WHERE student_id = 1 AND course_id = 101;
138
139
1/10
                                                                                                              Context Help Snippets
Output ::::
Action Output
 # Time Action

1 16:29:24 DELETE FROM Enrollments WHERE student_id = 1 AND course_id = 101
                                                                   Message
1 row(s) affected
                                                                                                                           Duration / Fetch
                                                                                                                           0.016 sec
```

```
SQLAdditions
                                                                                 My Snippets • | 🖏 🗞 🗞
140
141
142
143 /*5*/
144 • UPDATE Courses
145 SET teacher_id = 2
146 WHERE course_id = 105;
147
1/10
                                                                                Context Help Snippets
Message
0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0
                                                                                          0.000 sec
```

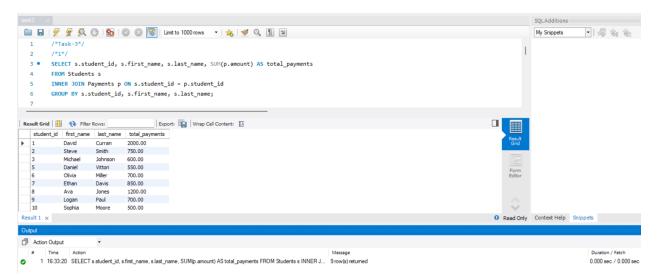
```
SQLAdditions
                                                                                                                                           · | 40 % %
🚞 🔛 | 🗲 💯 👰 🔘 | 🚳 | ◎ 🚳 | Ⅲ Limit to 1000 rows 🔻 | 🟂 | 🛫 🔍 ¶ 🖫
                                                                                                                                  My Snippets
150
151
152 /*6*/
153 • DELETE FROM Students
154 WHERE student_id = 4;
155
156
157
1 = 0
                                                                                                                                 Context Help Snippets
Action Output
# Time Action

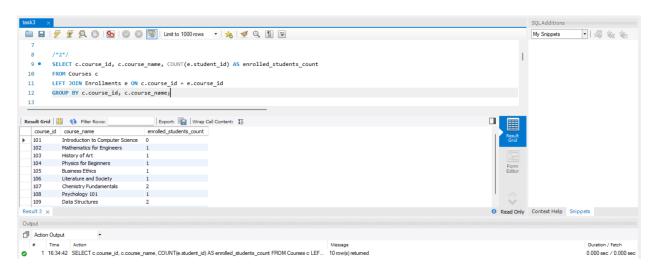
1 16:31:27 DELETE FROM Students WHERE student_id = 4
                                                                               Message
1 row(s) affected
                                                                                                                                                 Duration / Fetch
                                                                                                                                                 0.000 sec
```

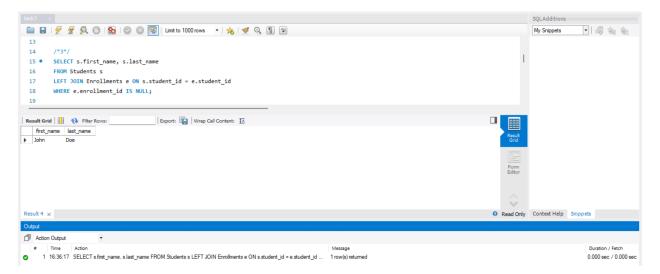
```
SQLAdditions
- | 母 も も
                                                                                                                      My Snippets
157
158
159 /*7*/
160 • UPDATE Payments
161
      SET amount = 1500.00
162
       WHERE payment_id = 1;
163
164
165
                                                                                                                     Context Help Snippets
Action Output
# | Time | Action | 1 16:32:12 | UPDATE Payments SET amount = 1500.00 WHERE payment_id = 1
                                                                       Message
1 row(s) affected Rows matched: 1 Changed: 1 Warnings; 0
                                                                                                                                   Duration / Fetch
0.000 sec
```

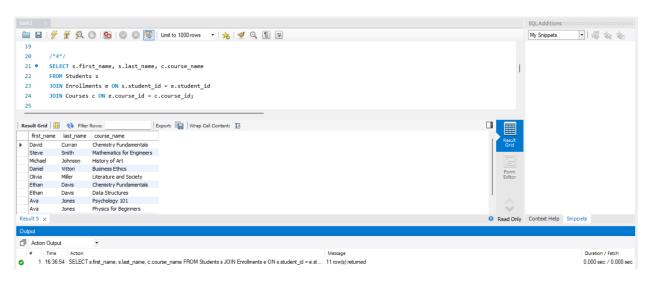
TASK3:

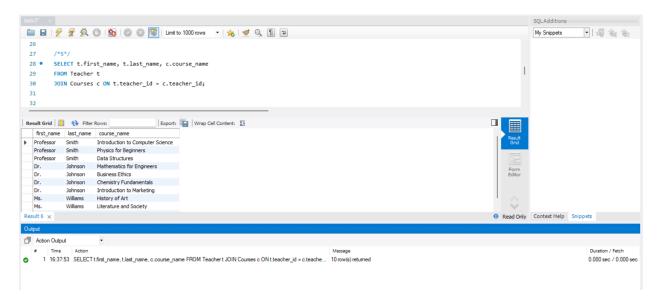
1.

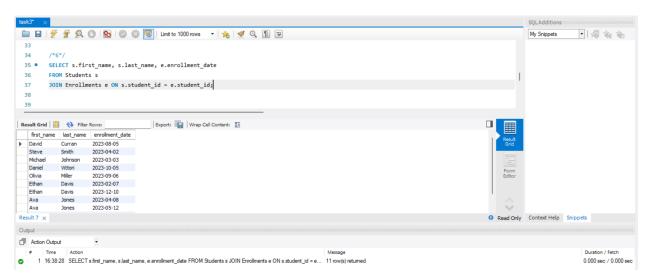


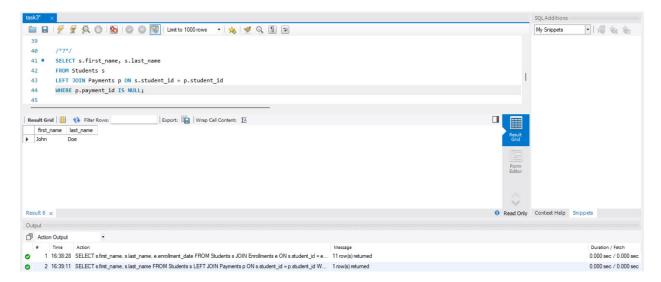


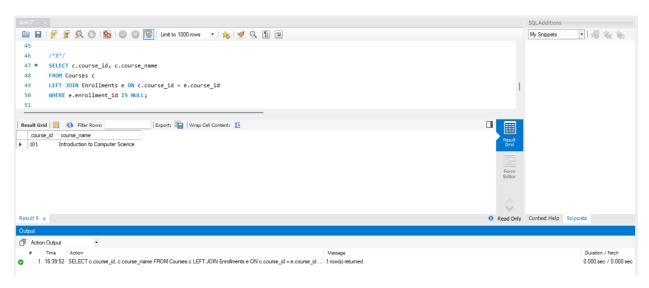


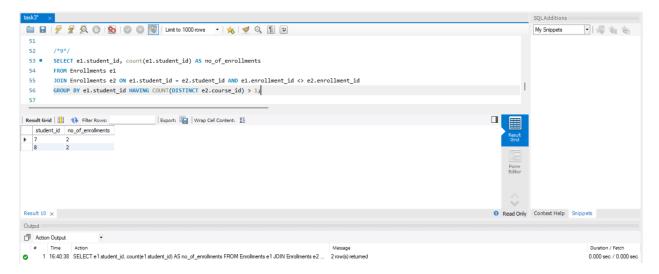


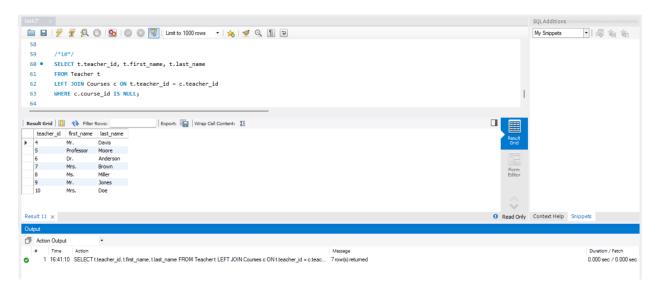












Task 4:

1.

