

ASSIGNMENT-2(HEXA)

Task-1:

By:Satyendra Singh Rathore

Task 1. Database Design:

1. Create the database named "SISDB"
2. Define the schema for the Students, Courses, Enrollments, Teacher, and Payments tables based on the provided schema. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships.
 - a. Students
 - b. Courses
 - c. Enrollments
 - d. Teacher
 - e. Payments
3. Create an ERD (Entity Relationship Diagram) for the database.
4. Create appropriate Primary Key and Foreign Key constraints for referential integrity.
5. Insert at least 10 sample records into each of the following tables.
 - i. Students
 - ii. Courses
 - iii. Enrollments
 - iv. Teacher
 - v. Payments

```
5 • create database SISDB;
6 • use SISDB;
7
8 • create table Students(student_id int primary key auto_increment,first_name text,last_name text,
9   date_of_birth date, email text, phone_no bigint);
10
11 • create table Courses(course_id int primary key auto_increment,course_name text, creadits int,
12   teacher_id int, foreign key (teacher_id) references teacher(teacher_id));
13
14 • create table Enrollments(enrollment_id int primary key auto_increment,student_id int,course_id int,
15   emrollment_date date, foreign key (student_id) references students(student_id), foreign key (course_id)
16   references courses(course_id));
17
18 • create table Teacher(teacher_id int primary key auto_increment,first_name text, last_name text,
19   email text);
20
21 • create table Payments(payment_id int primary key auto_increment,student_id int, amount int,
22   payment_date date, foreign key(student_id) references students(student_id));
```

Field	Type	Null	Key	Default	Extra
student_id	int	NO	PRI	NULL	auto_increment
first_name	text	YES		NULL	
last_name	text	YES		NULL	
date_of_birth	date	YES		NULL	
email	text	YES		NULL	
phone_no	bigint	YES		NULL	

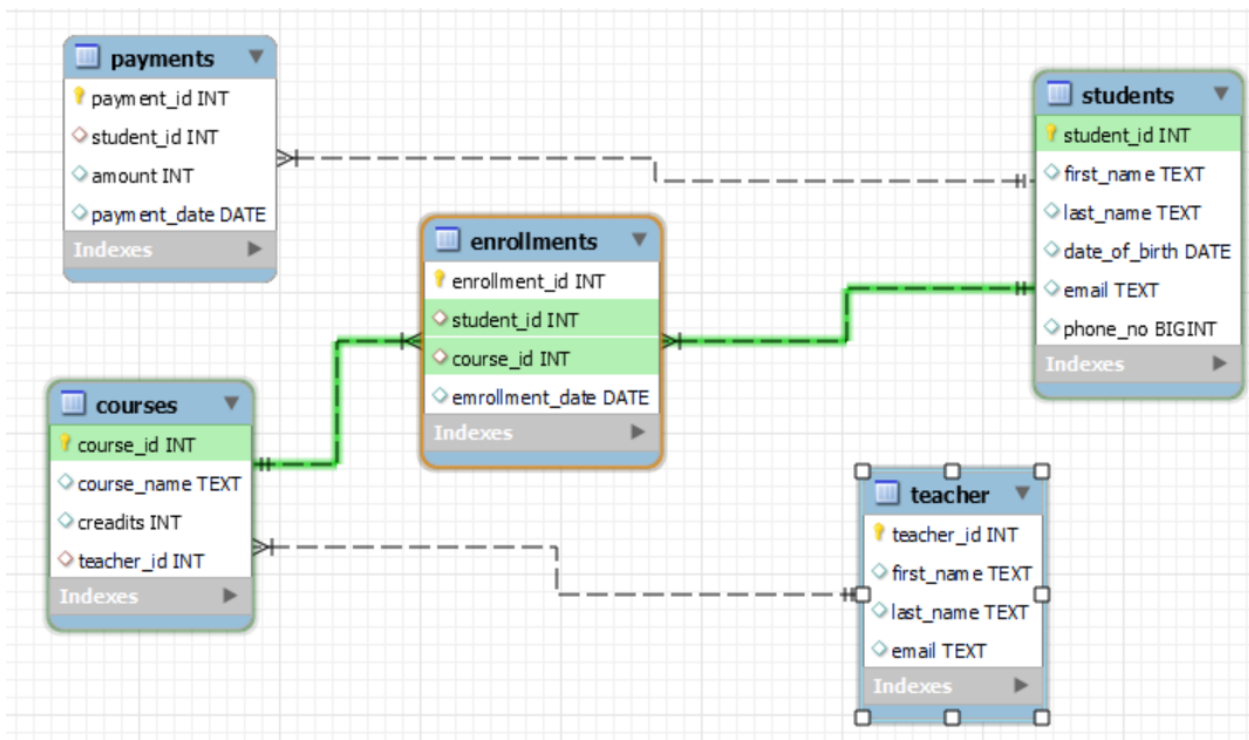
Field	Type	Null	Key	Default	Extra
teacher_id	int	NO	PRI	NULL	auto_increment
first_name	text	YES		NULL	
last_name	text	YES		NULL	
email	text	YES		NULL	

Field	Type	Null	Key	Default	Extra
course_id	int	NO	PRI	NULL	auto_increment
course_name	text	YES		NULL	
credits	int	YES		NULL	
teacher_id	int	YES	MUL	NULL	

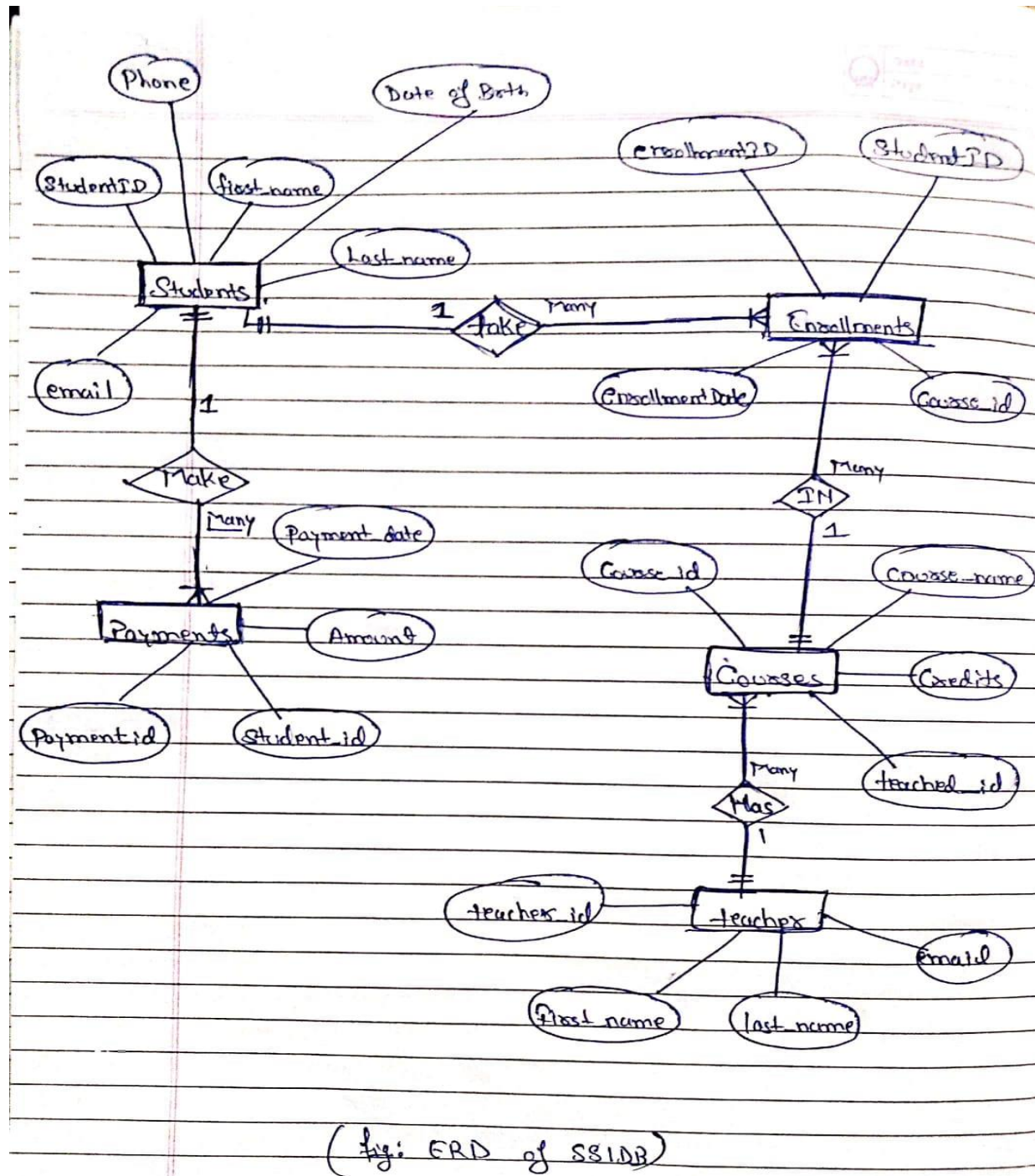
Field	Type	Null	Key	Default	Extra
payment_id	int	NO	PRI	NULL	auto_increment
student_id	int	YES	MUL	NULL	
amount	int	YES		NULL	
payment_date	date	YES		NULL	

Field	Type	Null	Key	Default	Extra
enrollment_id	int	NO	PRI	NULL	auto_increment
student_id	int	YES	MUL	NULL	
course_id	int	YES	MUL	NULL	
enrollment_date	date	YES		NULL	

Relationship Model:







ER Diagram:



```
INSERT INTO students (first_name, last_name, date_of_birth, email, phone_no)
VALUES
```

```
  ('John', 'Doe', '2000-05-15', 'john@example.com', 1234567890),
  ('Jane', 'Smith', '2001-08-22', 'jane@example.com', 9876543210),
  ('Alice', 'Johnson', '1999-11-30', 'alice@example.com', 1112223333),
  ('Bob', 'Williams', '2002-04-10', 'bob@example.com', 4445556666),
  ('Emily', 'Brown', '1998-09-18', 'emily@example.com', 7778889999),
  ('Michael', 'Jones', '2003-12-25', 'michael@example.com', 3331110000),
  ('Sophia', 'Garcia', '1997-07-05', 'sophia@example.com', 9990001111),
  ('William', 'Martinez', '2004-03-12', 'william@example.com', 2223334444),
  ('Olivia', 'Lopez', '1996-06-28', 'olivia@example.com', 6667778888),
  ('Daniel', 'Lee', '2005-02-20', 'daniel@example.com', 8889990000);
```

<						
Result Grid						
Filter Rows: <input type="text"/>						
Edit:   						
Export/Import: 						
	student_id	first_name	last_name	date_of_birth	email	phone_no
▶	1	John	Doe	2000-05-15	john@example.com	1234567890
	2	Jane	Smith	2001-08-22	jane@example.com	9876543210
	3	Alice	Johnson	1999-11-30	alice@example.com	1112223333
	4	Bob	Williams	2002-04-10	bob@example.com	4445556666
	5	Emily	Brown	1998-09-18	emily@example.com	7778889999
	6	Michael	Jones	2003-12-25	michael@example.com	3331110000
	7	Sophia	Garcia	1997-07-05	sophia@example.com	9990001111
	8	William	Martinez	2004-03-12	william@example.com	2223334444
	9	Olivia	Lopez	1996-06-28	olivia@example.com	6667778888
	10	Daniel	Lee	2005-02-20	daniel@example.com	8889990000
	11	Jhon	Doe	1995-08-15	jhon.doe@example.com	1234567890
*	NULL	NULL	NULL	NULL	NULL	NULL

```
INSERT INTO courses (course_id, course_name, ccredits, teacher_id)
```

```
VALUES
```

```
  (1, 'Mathematics', 3, 101),
  (2, 'History', 4, 102),
  (3, 'Physics', 4, 103),
  (4, 'Biology', 3, 104),
  (5, 'English', 3, 105),
  (6, 'Computer Science', 4, 106),
  (7, 'Chemistry', 4, 107),
  (8, 'Geography', 3, 108),
  (9, 'Art', 2, 109),
  (10, 'Economics', 3, 110);
```

```
70 • select * from courses;
```

Result Grid				
Filter Rows:				
Edit:				
	course_id	course_name	credits	teacher_id
▶	1	Mathematics	3	105
	2	History	4	102
	3	Physics	4	103
	4	Biology	3	104
	5	English	3	105
	6	Computer Science	4	106
	7	Chemistry	4	107
	8	Geography	3	108
	9	Art	2	109
	10	Economics	3	110
•	NULL	NULL	NULL	NULL

```
72 • INSERT INTO enrollments (enrollment_id, student_id, course_id, enrollment_date)
```

```
73     VALUES
```

```
74         (1, 1, 1, '2023-01-01'),
```

```
75         (2, 2, 2, '2023-01-02'),
```

```
76         (3, 3, 3, '2023-01-03'),
```

```
77         (4, 4, 4, '2023-01-04'),
```

```
78         (5, 5, 5, '2023-01-05'),
```

```
79         (6, 6, 6, '2023-01-06'),
```

```
80         (7, 7, 7, '2023-01-07'),
```

```
81         (8, 8, 8, '2023-01-08'),
```

```
82         (9, 9, 9, '2023-01-09'),
```

Result Grid				
Filter Rows:				
Edit:				
	enrollment_id	student_id	course_id	enrollment_date
▶	1	1	1	2023-01-01
	4	4	4	2023-01-04
	5	5	5	2023-01-05
	6	6	6	2023-01-06
	7	7	7	2023-01-07
	8	8	8	2023-01-08
	9	9	9	2023-01-09
	10	10	10	2023-01-10
	11	1	1	2023-12-10
•	NULL	NULL	NULL	NULL


```

86 • INSERT INTO payments (payment_id, student_id, amount, payment_date)
87 VALUES
88     (1, 1, 100, '2023-01-01'),
89     (2, 2, 150, '2023-01-02'),
90     (3, 3, 200, '2023-01-03'),
91     (4, 4, 90, '2023-01-04'),
92     (5, 5, 120, '2023-01-05'),
93     (6, 6, 180, '2023-01-06'),
94     (7, 7, 95, '2023-01-07'),
95     (8, 8, 130, '2023-01-08'),
96     (9, 9, 110, '2023-01-09'),
97     (10, 10, 140, '2023-01-10');

```

```

98 • select * from payments;
99

```

payment_id	student_id	amount	payment_date
1	1	100	2023-01-01
2	2	150	2023-01-02
3	3	200	2023-01-03
4	4	90	2023-01-04
5	5	900	2023-01-05
6	6	180	2023-01-06
7	7	95	2023-01-07
8	8	130	2023-01-08
9	9	110	2023-01-09
10	10	140	2023-01-10








Task-2:

- b. Last Name: Doe
 - c. Date of Birth: 1995-08-15
 - d. Email: john.doe@example.com
 - e. Phone Number: 1234567890
2. Write an SQL query to enroll a student in a course. Choose an existing student and course and insert a record into the "Enrollments" table with the enrollment date.
 3. Update the email address of a specific teacher in the "Teacher" table. Choose any teacher and modify their email address.
 4. Write an SQL query to delete a specific enrollment record from the "Enrollments" table. Select an enrollment record based on the student and course.
 5. Update the "Courses" table to assign a specific teacher to a course. Choose any course and teacher from the respective tables.
 6. Delete a specific student from the "Students" table and remove all their enrollment records from the "Enrollments" table. Be sure to maintain referential integrity.
 7. Update the payment amount for a specific payment record in the "Payments" table. Choose any payment record and modify the payment amount.

```

100    -- Taks-2
101
102    -- Q-2.1
103 •   insert into students(first_name,last_name,date_of_birth,email,phone_no)
104     values("Jhon","Doe",'1995-08-15',"jhon.doe@example.com",1234567890);
105 •   select * from students;

```








<   Filter Rows: | Edit:    | Export/Import:   | Wrap Cell Con

	student_id	first_name	last_name	date_of_birth	email	phone_no
▶	1	John	Doe	2000-05-15	john@example.com	1234567890
	2	Jane	Smith	2001-08-22	jane@example.com	9876543210
	3	Alice	Johnson	1999-11-30	alice@example.com	1112223333
	4	Bob	Williams	2002-04-10	bob@example.com	4445556666
	5	Emily	Brown	1998-09-18	emily@example.com	7778889999
	6	Michael	Jones	2003-12-25	michael@example.com	3331110000
	7	Sophia	Garcia	1997-07-05	sophia@example.com	9990001111
	8	William	Martinez	2004-03-12	william@example.com	2223334444
	9	Olivia	Lopez	1996-06-28	olivia@example.com	6667778888
	10	Daniel	Lee	2005-02-20	daniel@example.com	8889990000
	11	Jhon	Doe	1995-08-15	jhon.doe@example.com	1234567890

```

107    -- Q-2.2
108 •   INSERT INTO enrollments (student_id, course_id, enrollment_date)
109     VALUES (1, 1, CURDATE());
110 •   select * from enrollments;

```






<   Filter Rows: | Edit:    | Export/Import:   | Wra

	enrollment_id	student_id	course_id	enrollment_date
▶	1	1	1	2023-01-01
	4	4	4	2023-01-04
	5	5	5	2023-01-05
	6	6	6	2023-01-06
	7	7	7	2023-01-07
	8	8	8	2023-01-08
	9	9	9	2023-01-09
	10	10	10	2023-01-10
	11	1	1	2023-12-10
*	NULL	NULL	NULL	NULL

```

112 -- Q-2.3
113 • update teacher set email="abc@example.com" where teacher_id=105;
114 • select * from teacher;






```

Result Grid				
Filter Rows: <input type="text"/>				
Edit:   				
Export/Import:  				
	teacher_id	first_name	last_name	email
▶	101	Alice	Smith	alice.smith@example.com
	102	Bob	Johnson	bob.johnson@example.com
	103	Charlie	Williams	charlie.williams@example.com
	104	David	Brown	david.brown@example.com
	105	Emma	Miller	abc@example.com
	106	Frank	Davis	frank.davis@example.com
	107	Grace	Garcia	grace.garcia@example.com
	108	Henry	Martinez	henry.martinez@example.com
	109	Isabel	Lopez	isabel.lopez@example.com
	110	Jack	Lee	jack.lee@example.com
✱	NULL	NULL	NULL	NULL

```

116 -- Q-2.4
117 • delete from enrollments where student_id=2 and course_id=2;
118 • select * from enrollments;






```

Result Grid				
Filter Rows: <input type="text"/>				
Edit:   				
Export/Import:  				
	enrollment_id	student_id	course_id	enrollment_date
▶	1	1	1	2023-01-01
	4	4	4	2023-01-04
	5	5	5	2023-01-05
	6	6	6	2023-01-06
	7	7	7	2023-01-07
	8	8	8	2023-01-08
	9	9	9	2023-01-09
	10	10	10	2023-01-10
	11	1	1	2023-12-10
✱	NULL	NULL	NULL	NULL

```

120 -- Q-2.5
121 • UPDATE courses SET teacher_id = 105 WHERE course_id = 1;
122 • select * from courses;

```

Result Grid				
Filter Rows: <input type="text"/>				
Edit:   				
Export/Imp:  				
	course_id	course_name	credits	teacher_id
▶	1	Mathematics	3	105
	2	History	4	102
	3	Physics	4	103
	4	Biology	3	104
	5	English	3	105
	6	Computer Science	4	106
	7	Chemistry	4	107
	8	Geography	3	108
	9	Art	2	109
	10	Economics	3	110
✱	NULL	NULL	NULL	NULL


```

128      -- Q-2.7
129 •    update payments set amount=900 where student_id=5;
130 •    select * from payments;

```

	payment_id	student_id	amount	payment_date
▶	1	1	100	2023-01-01
	2	2	150	2023-01-02
	3	3	200	2023-01-03
	4	4	90	2023-01-04
	5	5	900	2023-01-05
	6	6	180	2023-01-06
	7	7	95	2023-01-07
	8	8	130	2023-01-08
	9	9	110	2023-01-09
	10	10	140	2023-01-10
•	NULL	NULL	NULL	NULL

Task-3:

1. Write an SQL query to calculate the total payments made by a specific student. You will need to join the "Payments" table with the "Students" table based on the student's ID.
2. Write an SQL query to retrieve a list of courses along with the count of students enrolled in each course. Use a JOIN operation between the "Courses" table and the "Enrollments" table.
3. Write an SQL query to find the names of students who have not enrolled in any course. Use a LEFT JOIN between the "Students" table and the "Enrollments" table to identify students without enrollments.
4. Write an SQL query to retrieve the first name, last name of students, and the names of the courses they are enrolled in. Use JOIN operations between the "Students" table and the "Enrollments" and "Courses" tables.
5. Create a query to list the names of teachers and the courses they are assigned to. Join the "Teacher" table with the "Courses" table.
6. Retrieve a list of students and their enrollment dates for a specific course. You'll need to join the "Students" table with the "Enrollments" and "Courses" tables.
7. Find the names of students who have not made any payments. Use a LEFT JOIN between the "Students" table and the "Payments" table and filter for students with NULL payment records.
8. Write a query to identify courses that have no enrollments. You'll need to use a LEFT JOIN between the "Courses" table and the "Enrollments" table and filter for courses with NULL enrollment records.

9. Identify students who are enrolled in more than one course. Use a self-join on the "Enrollments" table to find students with multiple enrollment records.

10. Find teachers who are not assigned to any courses. Use a LEFT JOIN between the "Teacher" table and the "Courses" table and filter for teachers with NULL course assignments

```
135 -- Q-1
136 • SELECT s.student_id, s.first_name, s.last_name, SUM(p.amount) AS total_payments
137 FROM Students s
138 LEFT JOIN Payments p ON s.student_id = p.student_id
139 WHERE s.student_id = 7
140 GROUP BY s.student_id, s.first_name, s.last_name;
```

<

Result Grid  Filter Rows: Export:  Wrap Cell Content: 

	student_id	first_name	last_name	total_payments
▶	7	Sophia	Garcia	95

```
142 -- Q-2
143 • SELECT c.course_id, c.course_name, COUNT(e.student_id) AS enrolled_students
144 FROM Courses c
145 LEFT JOIN Enrollments e ON c.course_id = e.course_id
146 GROUP BY c.course_id, c.course_name;
```

<

Result Grid  Filter Rows: Export:  Wrap Cell Content: 





	course_id	course_name	enrolled_students
▶	1	Mathematics	2
	2	History	0
	3	Physics	0
	4	Biology	1
	5	English	1
	6	Computer Science	1
	7	Chemistry	1
	8	Geography	1
	9	Art	1
	10	Economics	1

```

148      -- Q-3
149  •    SELECT s.student_id, s.first_name, s.last_name
150      FROM Students s
151      LEFT JOIN Enrollments e ON s.student_id = e.student_id
152      WHERE e.student_id IS NULL;

```

<

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 




	student_id	first_name	last_name
▶	2	Jane	Smith
	3	Alice	Johnson
	11	Jhon	Doe

```

154      -- Q-4
155  •    SELECT s.first_name, s.last_name, c.course_name
156      FROM Students s
157      JOIN Enrollments e ON s.student_id = e.student_id
158      JOIN Courses c ON e.course_id = c.course_id;
159

```

<




Result Grid   Filter Rows: | Export:  | Wrap Cell C

	first_name	last_name	course_name
▶	John	Doe	Mathematics
	Bob	Williams	Biology
	Emily	Brown	English
	Michael	Jones	Computer Science
	Sophia	Garcia	Chemistry
	William	Martinez	Geography
	Olivia	Lopez	Art
	Daniel	Lee	Economics
	John	Doe	Mathematics

```

159
160 -- Q-5
161 • SELECT t.first_name AS teacher_first_name, t.last_name AS teacher_last_name, c.course_name
162 FROM Teacher t
163 JOIN Courses c ON t.teacher_id = c.teacher_id;
164



```

<			
Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 			
	teacher_first_name	teacher_last_name	course_name
▶	Bob	Johnson	History
	Charlie	Williams	Physics
	David	Brown	Biology
	Emma	Miller	Mathematics
	Emma	Miller	English
	Frank	Davis	Computer Science
	Grace	Garcia	Chemistry
	Henry	Martinez	Geography
	Isabel	Lopez	Art
	Jack	Lee	Economics

```

165 -- Q-6
166 • SELECT s.first_name, s.last_name, e.emrollment_date
167 FROM Students s
168 JOIN Enrollments e ON s.student_id = e.student_id
169 JOIN Courses c ON e.course_id = c.course_id
170 WHERE c.course_name = 'Computer Science';

```

<			
Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Conter			
	first_name	last_name	emrollment_date
▶	Michael	Jones	2023-01-06

```

172      -- Q-7
173 •    SELECT s.first_name, s.last_name
174      FROM Students s
175      LEFT JOIN Payments p ON s.student_id = p.student_id
176      WHERE p.student_id IS NULL;
177

```

<

Result Grid   Filter Rows: Export:  Wrap Cell Conte




	first_name	last_name
▶	Jhon	Doe

```

178      -- Q-8
179 •    SELECT c.course_id, c.course_name
180      FROM Courses c
181      LEFT JOIN Enrollments e ON c.course_id = e.course_id
182      WHERE e.course_id IS NULL;

```

<

Result Grid   Filter Rows: Export:  Wrap Cell Conte

	course_id	course_name
▶	2	History
	3	Physics


```

184      -- Q-9 ***
185 •    SELECT e1.student_id, COUNT(e1.course_id) AS enrollments_count
186      FROM Enrollments e1
187      JOIN Enrollments e2 ON e1.student_id = e2.student_id AND e1.course_id <> e2.course_id
188      GROUP BY e1.student_id
189      HAVING COUNT(e1.course_id) > 1;
190 •    select * from enrollments;

```

Result Grid		Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	student_id	enrollments_count		
▶	1	4		

```

191      -- Q-10
192 •    SELECT t.teacher_id, t.first_name, t.last_name
193      FROM Teacher t
194      LEFT JOIN Courses c ON t.teacher_id = c.teacher_id
195      WHERE c.teacher_id IS NULL;
196

```

Result Grid		Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	teacher_id	first_name	last_name	
▶	101	Alice	Smith	

Task-4:

1. Write an SQL query to calculate the average number of students enrolled in each course. Use aggregate functions and subqueries to achieve this.
2. Identify the student(s) who made the highest payment. Use a subquery to find the maximum payment amount and then retrieve the student(s) associated with that amount.
3. Retrieve a list of courses with the highest number of enrollments. Use subqueries to find the course(s) with the maximum enrollment count.
4. Calculate the total payments made to courses taught by each teacher. Use subqueries to sum payments for each teacher's courses.
5. Identify students who are enrolled in all available courses. Use subqueries to compare a student's enrollments with the total number of courses.
6. Retrieve the names of teachers who have not been assigned to any courses. Use subqueries to find teachers with no course assignments.

7. Calculate the average age of all students. Use subqueries to calculate the age of each student based on their date of birth.
8. Identify courses with no enrollments. Use subqueries to find courses without enrollment records.
9. Calculate the total payments made by each student for each course they are enrolled in. Use subqueries and aggregate functions to sum payments.
10. Identify students who have made more than one payment. Use subqueries and aggregate functions to count payments per student and filter for those with counts greater than one.
11. Write an SQL query to calculate the total payments made by each student. Join the "Students" table with the "Payments" table and use GROUP BY to calculate the sum of payments for each student.
12. Retrieve a list of course names along with the count of students enrolled in each course. Use JOIN operations between the "Courses" table and the "Enrollments" table and GROUP BY to count enrollments.
13. Calculate the average payment amount made by students. Use JOIN operations between the "Students" table and the "Payments" table and GROUP BY to calculate the average.

```
201      -- Q-1
202      SELECT AVG(sub.enrollment_count) AS average_students_per_course
203      FROM (
204          SELECT COUNT(student_id) AS enrollment_count
205          FROM Enrollments
206          GROUP BY course_id
207      ) AS sub;
```

Result Grid




average_students_per_course
1.1111


```

235  -- Q-4
236  • SELECT t.teacher_id, t.first_name, t.last_name, SUM(p.amount) AS total_payments
237  FROM Teacher t
238  JOIN Courses c ON t.teacher_id = c.teacher_id
239  JOIN Enrollments e ON c.course_id = e.course_id
240  JOIN Payments p ON e.student_id = p.student_id
241  GROUP BY t.teacher_id, t.first_name, t.last_name;

```

<

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 




	teacher_id	first_name	last_name	total_payments
▶	105	Emma	Miller	1100
	104	David	Brown	90
	106	Frank	Davis	180
	107	Grace	Garcia	95
	108	Henry	Martinez	130

```

243  -- Q-5
244  • SELECT student_id, COUNT(DISTINCT course_id) AS num_enrollments
245  FROM Enrollments
246  GROUP BY student_id
247  HAVING COUNT(DISTINCT course_id) = (SELECT COUNT(DISTINCT course_id) FROM Courses);
248
249  -- Q-6

```

<

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	student_id	num_enrollments
▶	1	10

```

256      -- Q-6
257 •    SELECT teacher_id, first_name, last_name
258      FROM Teacher
259      WHERE teacher_id NOT IN (
260          SELECT DISTINCT teacher_id
261          FROM Courses
262      );

```

Result Grid | Filter Rows: | Edit:

	teacher_id	first_name	last_name
▶	101	Alice	Smith
•	NULL	NULL	NULL

```

264      -- Q-7
265 •    SELECT AVG(age) AS average_age
266      FROM (
267          SELECT TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE()) AS age
268          FROM Students
269      ) AS student_ages;

```


Result Grid | Filter Rows: | Export: | Wrap Cell Content: I A

	average_age
▶	22.9091


```

271      -- Q-8
272  •    SELECT course_id, course_name
273      FROM Courses
274      WHERE course_id NOT IN (
275          SELECT DISTINCT course_id
276          FROM Enrollments
277      );

```

Result Grid   Filter Rows:

	course_id	course_name
▶	2	History
•	NULL	NULL

```

279      -- Q-9
280  •    SELECT e.student_id, c.course_id, SUM(p.amount) AS total_payments
281      FROM Enrollments e
282      JOIN Payments p ON e.student_id = p.student_id
283      JOIN Courses c ON e.course_id = c.course_id
284      GROUP BY e.student_id, c.course_id;

```



Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	student_id	course_id	total_payments
▶	1	1	200
	4	4	90
	5	5	900
	6	6	180
	7	7	95
	8	8	130
	9	9	110
	10	10	140
	1	3	100


```

298 -- Q-12
299 • SELECT c.course_id, c.course_name, COUNT(e.student_id) AS student_count
300 FROM Courses c
301 LEFT JOIN Enrollments e ON c.course_id = e.course_id



```

Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	course_id	course_name	student_count
▶	1	Mathematics	2
	2	History	0
	3	Physics	1
	4	Biology	1
	5	English	1
	6	Computer Science	1
	7	Chemistry	1
	8	Geography	1
	9	Art	1
	10	Economics	1

```

304 -- Q-13
305 • SELECT s.student_id, s.first_name, s.last_name, AVG(p.amount) AS average_payment
306 FROM Students s
307 LEFT JOIN Payments p ON s.student_id = p.student_id

```

Result Grid				
Filter Rows: <input type="text"/>				
Export:  Wrap Cell Content: 				
	student_id	first_name	last_name	average_payment
▶	1	John	Doe	100.0000
	2	Jane	Smith	150.0000
	3	Alice	Johnson	200.0000
	4	Bob	Williams	90.0000
	5	Emily	Brown	900.0000
	6	Michael	Jones	180.0000
	7	Sophia	Garcia	95.0000
	8	William	Martinez	130.0000
	9	Olivia	Lopez	110.0000
	10	Daniel	Lee	140.0000
	11	Jhon	Doe	NULL