TASK 1:-Database Design:

1. Create the database named "SISDB".

create database 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.

```
Students table:- create table student(
student_id int primary key,
first_name varchar(15) not null,
last_name varchar(15),
date_of_birth varchar(15),
email varchar(30),
phone_number bigint
);
```

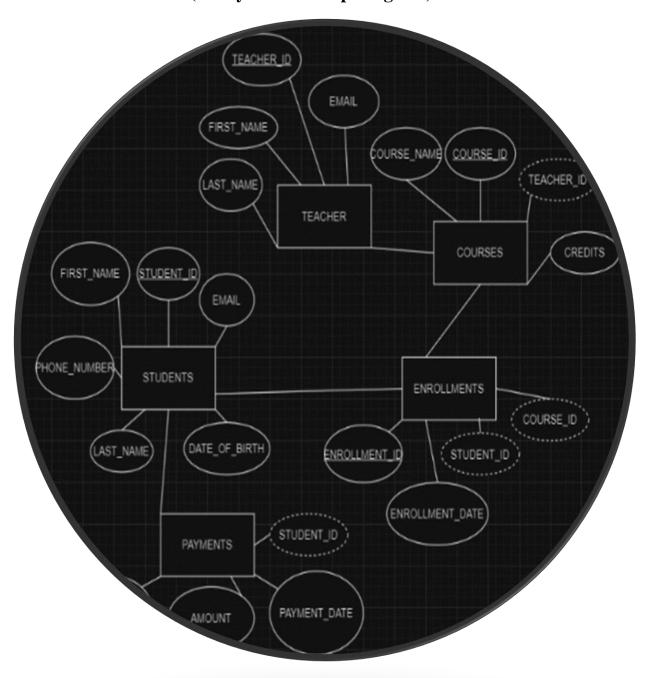
Teacher table:- create table teacher(

teacher_id int primary key, first_name varchar(20) not null, last_name varchar(20) not null, email varchar(50));

```
Courses table:- create table courses(
course_id int primary key,
course_name varchar(20) not null,
credits int,
teacher id int not null,
FOREIGN KEY (teacher_id) REFERENCES teacher(teacher_id)
);
Enrollments table:- create table enrollments(
enrollment id int primary key,
student_id int not null,
course_id int not null,
enrollment_date varchar(15),
FOREIGN KEY (student_id) REFERENCES student(student_id),
FOREIGN KEY (course_id) REFERENCES courses(course_id)
);
Payments table:- create table payments(
payment_id int primary key,
student_id int not null,
amount varchar(15) not null,
payment_date varchar(15),
FOREIGN KEY (student id) REFERENCES student(student id)
);
```

Gautam Sharma

2 & 3. Create an ERD (Entity Relationship Diagram) for the database.



4.Insert at least 10 sample records into each of the following tables.

```
insert into student(student_id,first_name,last_name,date_of_birth,email,phone_number) values(1001,"Gautam","Sharma","08/05/2001","kundragautam007@gmail.com",1 000000001), (1002,"Aniket","Gaur",'10/10/2001',"ag@gmail.com",1000000002), (1003,"Deepak","Singh",'10/01/2000',"dds@gmail.com",10000000003), (1004,"Madhu","Kumari",'18/07/2003',"mk@gmail.com",10000000004), (1005,"Uday","Bahuguna",'06/12/2001',"ub@gmail.com",1000000005), (1006,"Haritha","Kotapatti",'25/01/2004',"hk@gmail.com",1000000006), (1007,"Aryan","Singh",'23/04/2002',"as@gmail.com",1000000007), (1008,"Suchit","Bhardwaj",'24/09/2001',"sb@gmail.com",1000000008), (1009,"Aakarshit","Choudhary",'13/01/2000',"ac@gmail.com",1000000009), (1010,"Harsh","Tanwar",'30/11/2001',"ht@gmail.com",10000000010);
```

1001 I	Gautam	Sharma	 08/05/2001	kundragautam007@gmail.com	 1000000001
1002	Aniket	Gaur	10/10/2001	ag@gmail.com	1000000002
1003	Deepak	Singh	10/01/2000	dds@gmail.com	1000000003
1004	Madhu	Kumari	18/07/2003	mk@gmail.com	1000000004
1005	Uday	Bahuguna	06/12/2001	ub@gmail.com	1000000005
1006	Haritha	Kotapatti	25/01/2004	hk@gmail.com	1000000006
1007	Aryan	Singh	23/04/2002	as@gmail.com	1000000007
1008	Suchit	Bhardwaj	24/09/2001	sb@gmail.com	100000008
1009	Aakarshit	Choudhary	13/01/2000	ac@gmail.com	1000000009
1010	Harsh	Tanwar	30/11/2001	ht@gmail.com	1000000010

```
insert into teacher(teacher_id,first_name,last_name,email)
values(101,"Gautam","Sharma","kundragautam007@gmail.com"),
(102,"Ankita","Tripathi","at@gmail.com"),
(103,"Varun","Singh","vs@gmail.com"),
(104,"Roshini","Singh","rs@gmail.com"),
(105,"Dev","Lamba","dl@gmail.com"),
(106,"Vansh","Deswal","vd@gmail.com"),
(107,"Udit","Kumar","uk@gmail.com"),
(108,"Dev","Singh","ds@gmail.com"),
(109,"Dev","Mishra","dm@gmail.com"),
(110,"Vineet","Kumar","vk@gmail.com");
```

teacher id	first_name	 last name	++ email
+			
101	Gautam	Sharma	kundragautam007@gmail.com
102	Ankita	Tripathi	at@gmail.com
103	Varun	Singh	vs@gmail.com
104	Roshini	Singh	rs@gmail.com
105	Dev	Lamba	dl@gmail.com
106	Vansh	Deswal	vd@gmail.com
107	Udit	Kumar	uk@gmail.com
108	Dev	Singh	ds@gmail.com
109	Dev	Mishra	dm@gmail.com
110	Vineet	Kumar	vk@gmail.com
++		·	++

insert into courses(course_id,course_name,credits,teacher_id) values

(10001, "Java", 10, 101),

(10002,"C++",5,102),

(10003,"C",5,103),

(10004,"Python",5,104),

(10005,"English",3,105),

(10006,"C#",7,106),

(10007,"HTML",5,107),

(10008,"CSS",5,108),

(10009, "JavaScript", 10, 109),

(10010,"React",10,110);

#		, +	+
course_id	course_name	credits	teacher_id
10001	 Java	10	101
10002	C++	5	102
10003	C	5	103
10004	Python	5	104
10005	English	3	105
10006	C#	7	106
10007	HTML	5	107
10008	CSS	5	108
10009	JavaScript	10	109
10010	React	10	110
+	+	+	++

insert into enrollments(enrollment_id,student_id,course_id,enrollment_date) values(901,1001,10001,"10-05-2023"), (902,1002,10002,"19-02-2022"), (903,1003,10003,"20-05-2021"), (904,1004,10004,"30-01-2023"), (905,1005,10005,"15-10-2023"),

(906, 1006, 10006, "21-07-2022"),

(907,1007,10007,"11-12-2022"),

(908,1008,10008,"25-03-2023"),

(909,1009,10009,"13-07-2021"),

(910,1010,10010,"17-07-2022");

+			
enrollment_id	student_id	course_id	enrollment_date
+	1001 1002 1003 1004 1005 1006	10001 10002 10003 10004 10005 10006	10-05-2023
907 908 909 910	1007 1008 1009 1010	10007 10008 10009 10010	11-12-2022 25-03-2023

```
insert into payments(payment_id,student_id,amount,payment_date) values(5001,1001,"Rs. 10000","10-05-2023"), (5002,1002,"Rs. 2500","19-02-2022"), (5003,1003,"Rs. 3000","20-05-2021"), (5004,1004,"Rs. 5000","30-01-2023"), (5005,1005,"Rs. 4500","15-10-2023"), (5006,1006,"Rs. 7000","21-07-2022"), (5007,1007,"Rs. 3000","11-12-2022"), (5008,1008,"Rs. 4000","25-03-2023"), (5009,1009,"Rs. 10000","13-07-2021"), (5010,1010,"Rs. 15000","17-07-2022");
```

+	+	·	++
payment_id	student_id	amount	payment_date
5001 5002 5003 5004 5005 5006	1001 1002 1003 1004 1005 1006 1007	Rs. 10000 Rs. 2500 Rs. 3000 Rs. 5000 Rs. 4500 Rs. 7000 Rs. 3000	10-05-2023 19-02-2022 20-05-2021 30-01-2023 15-10-2023 21-07-2022 11-12-2022
5008 5009 5010	1008 1009 1010	Rs. 4000 Rs. 10000 Rs. 15000	25-03-2023 13-07-2021 17-07-2022
+	+		++

Task 2:- Select, Where, Between, AND, LIKE:

1:-Write an SQL query to insert a new student into the "Students" table with the following details:

a. First Name: John

b. Last Name: Doe

c. Date of Birth: 1995-08-15

d. Email: john.doe@example.com

e. Phone Number: 1234567890

insert into student(student_id,first_name,last_name,date_of_birth,email,phone_number) values(1011,"John","Doe","15/08/1995","john.doe@example.com",1234567890);

+ student_id	first_name	+ last_name	 date_of_birth	 email	phone_number
1001	Gautam	Sharma	08/05/2001	kundragautam007@gmail.com	1000000001
1002	Aniket	Gaur	10/10/2001	ag@gmail.com	1000000002
1003	Deepak	Singh	10/01/2000	dds@gmail.com	1000000003
1004	Madhu	Kumari	18/07/2003	mk@gmail.com	1000000004
1005	Uday	Bahuguna	06/12/2001	ub@gmail.com	1000000005
1006	Haritha	Kotapatti	25/01/2004	hk@gmail.com	1000000006
1007	Aryan	Singh	23/04/2002	as@gmail.com	1000000007
1008	Suchit	Bhardwaj	24/09/2001	sb@gmail.com	1000000008
1009	Aakarshit	Choudhary	13/01/2000	ac@gmail.com	1000000009
1010	Harsh	Tanwar	30/11/2001	ht@gmail.com	1000000010
1011	John	Doe	15/08/1995	john.doe@example.com	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.

INSERT INTO Enrollments (enrollment_id,student_id,course_id,enrollment_date) VALUES(911,

(SELECT student_id FROM Student WHERE first_name = 'Gautam'),

(SELECT course_id FROM Courses WHERE course_name = 'Java'),'10-05-2023');

+ enrollment_id	student_id	course_id	++ enrollment_date
901	1001	10001	10-05-2023
902	1002	10002	
903	1003	10003	
904	1004	10004	
905	1005	10005	
906	1006	10006	
907	1007	10007	
908	1008	10008	
909	1009	10009	
911	1001	10001	10-05-2023
+			++

3:-Update the email address of a specific teacher in the "Teacher" table. Choose any teacher and

modify their email address.

update teacher set email="gautamshrmaji@gmail.com" where teacher_id=101;

101 Gautam Sharma gautamshrmaji@gmail.com 102 Ankita Tripathi at@gmail.com 103 Varun Singh vs@gmail.com 104 Roshini Singh rs@gmail.com 105 Dev Lamba dl@gmail.com 106 Vansh Deswal vd@gmail.com 107 Udit Kumar uk@gmail.com 108 Dev Singh ds@gmail.com 109 Dev Mishra dm@gmail.com 110 Vineet Kumar vk@gmail.com	teacher_id	+ first_name	 last_name	++ email
	102 103 104 105 106 107 108 109	Ankita Varun Roshini Dev Vansh Udit Dev Dev	Tripathi Singh Singh Lamba Deswal Kumar Singh Mishra	at@gmail.com vs@gmail.com rs@gmail.com dl@gmail.com vd@gmail.com uk@gmail.com ds@gmail.com

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.

delete from enrollments where enrollment_id=911;

+			+
enrollment_id	student_id	course_id	enrollment_date
+	⊦ -		 +
901	1001	10001	10-05-2023
902	1002	10002	19-02-2022
903	1003	10003	20-05-2021
904	1004	10004	30-01-2023
905	1005	10005	15-10-2023
906	1006	10006	21-07-2022
907	1007	10007	11-12-2022
908	1008	10008	25-03-2023
909	1009	10009	13-07-2021
910	1010	10010	17-07-2022
+	·		

5:-Update the "Courses" table to assign a specific teacher to a course. Choose any course and

teacher from the respective tables.

update courses set teacher_id=(select teacher_id from teacher where first_name="Gautam")where course_id=10004;

course_id	course_name	credits	+ teacher_id
10001	Java	10	101
10002	C++	5	102
10003	С	5	103
10004	Python	5	101
10005	English	3	105
10006	C#	7	106
10007	HTML	5	107
10008	CSS	5	108
10009	JavaScript	10	109
10010	React	10	110
+	·	+	++

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.

delete from student where student_id=1011;

truncate table enrollments;

scadenc_id	first_name	last_name	date_of_birth	email	phone_number
1002 1003 1004 1005 1006 1007 1008 1009 10	Gautam Aniket Deepak Madhu Uday Haritha Aryan Suchit Aakarshit	Sharma Gaur Singh Kumari Bahuguna Kotapatti Singh Bhardwaj Choudhary Tanwar	08/05/2001 10/10/2001 10/01/2000 18/07/2003 06/12/2001 25/01/2004 23/04/2002 24/09/2001 13/01/2000	Kundragautam007@gmail.com ag@gmail.com dds@gmail.com mk@gmail.com ub@gmail.com hk@gmail.com sb@gmail.com sb@gmail.com ac@gmail.com ac@gmail.com	100000001 100000002 100000003 1000000005 1000000005 1000000000 100000000

7:-Update the payment amount for a specific payment record in the "Payments" table. Choose any

payment record and modify the payment amount.

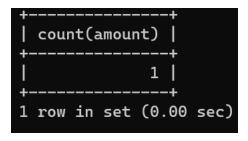
update payments set amount="Rs. 21000" where student_id=1001;

payment_id	student_id	amount	payment_date
5001	1001	Rs. 21000	10-05-2023 19-02-2022 20-05-2021 30-01-2023 15-10-2023 21-07-2022 11-12-2022 25-03-2023 13-07-2021
5002	1002	Rs. 2500	
5003	1003	Rs. 3000	
5004	1004	Rs. 5000	
5005	1005	Rs. 4500	
5006	1006	Rs. 7000	
5007	1007	Rs. 3000	
5008	1008	Rs. 4000	
5009	1009	Rs. 10000	

Task 3. Aggregate functions, Having, Order By, GroupBy and Joins:

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.

select count(amount) from payments inner join student on payments.student_id=student.student_id where student_id=1001;



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.

select courses.course_id, courses.course_name, COUNT(enrollments.student_id) as enrolled_students_count from courses join enrollments

on courses.course_id = enrollments.course_id group by courses.course_id;

course_id	course_name	enrolled_students_count
10001	Java	1
10002	C++	i 1 i
10003	С	1
10004	Python	1
10005	English	1
10006	C#	1
10007	HTML	1
10008	CSS	1
10009	JavaScript	1
10010	React	1
+		

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.

select student.student_id, student.first_name, student.last_name from student left join enrollments on student.student_id=enrollments.student_id where enrollments.student_id=null;

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.

select student.first_name, student.last_name, courses.course_name from student inner join enrollments on student.student_id=enrollments.student_id inner join courses on enrollments.course_id=courses.course_id;

+	+	·
first_name	last_name	course_name
Gautam Aniket Deepak Madhu Uday Haritha Aryan Suchit Aakarshit	Sharma Gaur Singh Kumari Bahuguna Kotapatti Singh Bhardwaj Choudhary	Java C++ C Python English C# HTML JavaScript React
+		++

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.

select teacher.first_name, teacher.last_name, courses.course_name from teacher join courses on courses.teacher_id=teacher.teacher_id;

+	+ last_name	+ course_name
Gautam Gautam Ankita Varun Dev Vansh Udit Dev Dev Vineet	Sharma Sharma Tripathi Singh Lamba Deswal Kumar Singh Mishra Kumar	Java Python C++ C English HTML CSS JavaScript React

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.

select student.student_id, student.first_name, student.last_name, student.email, student.date_of_birth,student.phone_number, enrollments.enrollment_date from student join enrollments on student.student_id=enrollments.student_id join courses on enrollments.course_id=courses.course_id where enrollments.course_id=10001;

student_id first_name date_of_birth phone_			+	+	-
1001 Gautam	Sharma		/05/2001	1000000001	10-05-2023
		kundragautam007@gmail.com	+	+	+

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.

select student.student_id, student.first_name, student.last_name from student left join payments on student.student_id=payments.payment_id where payments.amount=null;

```
mysql> select student.student_id, student.first_name, student.last_name
    -> from student left join payments
    -> on student.student_id=payments.payment_id
    -> where payments.amount=null;
Empty set (0.00 sec)
```

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.

select courses.course_id, courses.course_name from courses left join enrollments on courses.course_id=enrollments.course_id where enrollments.enrollment_id=null;

```
mysql> select courses.course_id, courses.course_name from courses
   -> left join enrollments on courses.course_id=enrollments.course_id
   -> where enrollments.enrollment_id=null;
Empty set (0.00 sec)
```

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.

```
select e1.student_id, count(e1.course_id) as courses_count from enrollments e1 join enrollments e2 on e1.student_id = e2.student_id and e1.course_id <> e2.course_id group by e1.student_id having count(e1.course_id) > 1;
```

```
mysql> select e1.student_id, count(e1.course_id) as courses_count
   -> from enrollments e1 join enrollments e2
   -> on e1.student_id = e2.student_id and e1.course_id <> e2.course_id
   -> group by e1.student_id having count(e1.course_id) > 1;
Empty set (0.00 sec)
```

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.

select teacher.teacher_id, teacher.first_name, teacher.last_name from teacher left join courses on teacher.teacher_id=courses.teacher_id where courses.teacher_id=null;

```
mysql> select teacher.teacher_id, teacher.first_name, teacher.last_name
    -> from teacher left join courses on teacher.teacher_id=courses.teacher_i
    -> where courses.teacher_id=null;
Empty set (0.00 sec)
```

Task 4. Subquery and its type:

1:- Write an SQL query to calculate the average number of students enrolled in each course. Use aggregate functions and subqueries to achieve this.

select c.course_id, c.course_name, avg(e.students_enrolled) as avg_students_enrolled from courses c join(select course_id, count(student_id) as students_enrolled from enrollments group by course_id) e on c.course_id=e.course_id group by c.course_id, c.course_name;

+	+	++
course_id	course_name	avg_students_enrolled
10001 10002 10003 10004 10005 10006 10007	+ Java C++ C Python English C# HTML CSS	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
10009 10010	JavaScript React	1.0000 1.0000
+	+	tt

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.

select s.student_id,s.first_name,s.last_name,p.amount as maximum_amount from student s
join payments p on s.student id= p.student id

where p.amount= (select max(amount) from payments);

3:- Retrieve a list of courses with the highest number of enrollments. Use subqueries to find the course(s) with the maximum enrollment count.

select course_id, course_name from courses where (select max(total_enrollments) from(select course_id, count(student_id) as total_enrollments

from enrollments group by course_id) as course_enrollments);



4:- Calculate the total payments made to courses taught by each teacher. Use subqueries to sum payments for each teacher's courses.

select t.teacher_id,t.first_name,t.last_name, SUM(p.amount) from teacher t join courses c ON t.teacher_id=c.teacher_id left join enrollments e ON c.course_id=e.course_id left join payments p ON e.student_id=p.student_id group by t.teacher_id,t.first_name,t.last_name;

+ teacher_id	+ first_name +	+ last_name 	+ SUM(p.amount)
101	Gautam	Sharma	0
102	Ankita	Tripathi	0
103	Varun	Singh	0
105	Dev	Lamba	0
106	Vansh	Deswal	0
107	Udit	Kumar	0
108	Dev	Singh	0
109	Dev	Mishra	0
110	Vineet	Kumar	0
+	+	+	++

5:- Identify students who are enrolled in all available courses. Use subqueries to compare a student's enrollments with the total number of courses.

select s.student_id,s.first_name,s.last_name from student s where (select COUNT(distinct e.course_id) from enrollments e) = (select COUNT(distinct e2.course_id) from enrollments e2 where e2.student_id = s.student_id);

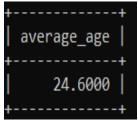
```
mysql> select s.student_id,s.first_name,s.last_name from student
s
    -> where (select COUNT(distinct e.course_id) from enrollment
s e) =
    -> (select COUNT(distinct e2.course_id) from enrollments e2
    -> where e2.student_id = s.student_id);
Empty set (0.00 sec)
```

6:- Retrieve the names of teachers who have not been assigned to any courses. Use subqueries to find teachers with no course assignments.

```
select t.teacher_id,t.first_name,t.last_name
from teacher t
where
not exists ( select teacher_id from courses c
where c.teacher_id=t.teacher_id);
```

7:- Calculate the average age of all students. Use subqueries to calculate the age of each student based on their date of birth.

select avg(student_age) as average_age
from (select timestampdiff(year, date_of_birth,curdate()) as student_age
from student) as student_ages;



8:- Identify courses with no enrollments. Use subqueries to find courses without enrollment records.

select c.course_id,c.course_name from courses c where not exists (select course_id from enrollments e where e.course_id= c.course_id);

```
mysql> select c.course_id,c.course_name
    -> from courses c where
    -> not exists ( select course_id from enrollments e
    -> where e.course_id= c.course_id);
Empty set (0.00 sec)
```

9:- Calculate the total payments made by each student for each course they are enrolled in. Use subqueries and aggregate functions to sum payments.

select s.student_id,s.first_name,s.last_name,c.course_id,c.course_name, SUM(p.amount) as total_payments from student s join enrollments e on s.student_id= e.student_id join courses c on e.course_id= c.course_id left join payments p on s.student_id= p.student_id

group by s.student_id,s.first_name,s.last_name,c.course_id,c.course_name;

+ student_id	first_name	last_name	course_id	course_name	total_payments
1001 1002 1003 1004 1005 1006 1007 1008 1009	Gautam Aniket Deepak Madhu Uday Haritha Aryan Suchit Aakarshit Harsh	Sharma Gaur Singh Kumari Bahuguna Kotapatti Singh Bhardwaj Choudhary Tanwar	10001 10002 10003 10004 10005 10006 10007 10008 10009	Java C++ C Python English C# HTML CSS JavaScript React	100.00 150.00 150.00 130.00 110.00 90.00 80.00 200.00 170.00 140.00

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.

select s.student_id,s.first_name,s.last_name from student s join payments p on s.student_id= p.student_id group by s.student_id, s.first_name, s.last_name having COUNT(p.payment_id)>1;

```
mysql> select s.student_id,s.first_name,s.last_name from student s
    -> join payments p on s.student_id= p.student_id
    -> group by s.student_id, s.first_name, s.last_name
    -> having COUNT(p.payment_id)>1;
Empty set (0.00 sec)
```

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.

select s.student_id,s.first_name,s.last_name,SUM(p.amount) as total_payments from student s left join payments p on s.student_id= p.student_id group by s.student_id,s.first_name,s.last_name;

student_id	first_name	last_name	total_payments
+	 Gautam Aniket Deepak Madhu Uday Haritha Aryan Suchit Aakarshit Harsh	 Sharma Gaur Singh Kumari Bahuguna Kotapatti Singh Bhardwaj Choudhary Tanwar	100.00 150.00 150.00 130.00 110.00 90.00 80.00 170.00

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.

select c.course_id, c.course_name, count(e.student_id) as enrolled_students_count from courses c left join enrollments e on c.course_id= e.course_id group by c.course_id,c.course_name;

course_id	course_name	 enrolled_students_count
10001	Java	1
10002	C++	1
10003	С	1
10004	Python	1
10005	English	1
10006	C#	1
10007	HTML	1
10008	CSS	1
10009	JavaScript	1
10010	React	1
++		tt

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.

Select s.student_id,s.first_name,s.last_name,sum(p.amount) as total_payments from student s

left join payments p on s.student_id= p.student_id
group by s.student_id,s.first_name,s.last_name;

student_id	first_name	last_name	total_payments
1001 1002 1003 1004 1005 1006 1007 1008 1009	Gautam Aniket Deepak Madhu Uday Haritha Aryan Suchit Aakarshit	Sharma Gaur Singh Kumari Bahuguna Kotapatti Singh Bhardwaj	100.00 150.00 150.00 130.00 110.00 90.00 80.00 200.00
1010	Harsh	Tanwar 	140.00