



## **Student Information System (SIS) Instructions:**

- Submitting assignments should be a single file or through git hub link shared with trainer and hexavarsity.
- Each assignment builds upon the previous one, and by the end, you will have a comprehensive application implemented in Java/C#/Python with a strong focus on SQL schema design, control flow statements, loops, arrays, collections, and database interaction.
- Follow object-oriented principles throughout the Java programming assignments. Use classes and objects to model real-world entities, encapsulate data and behavior, and ensure code reusability.
- Throw user defined exception from method and handle in the main method.
- The following Directory structure is to be followed in the application.

## o entity/model

- ◆ Create entity classes in this package. All entity class should not have any business logic. ○ dao
- ★ Create Service Provider interface/abstract class to showcase functionalities.
- ◆ Create the implementation class for the above interface/abstract class with db interaction.

### o exception

Create user defined exceptions in this package and handle exceptions whenever needed.

#### o util

- ◆ Create a DBPropertyUtil class with a static function which takes property file name as parameter and returns connection string.
- ◆ Create a DBConnUtil class which holds static method which takes connection string as parameter file and returns connection object. ○ main
- ← Create a class MainModule and demonstrate the functionalities in a menu driven application.

In this assignment, you will work with a simplified Student Information System (SIS) database. The SIS database contains information about students, courses, and enrollments. Your task is to perform various SQL operations on this database to retrieve and manipulate data.

#### **Database Tables:**

The SIS database consists of the following tables:

#### 1. Students

- student\_id (Primary Key)
- first name
- last name
- date of birth
- email
- phone number





#### 2. Courses

- course id (Primary Key)
- course\_name
- credits
- teacher\_id (Foreign Key)

### 3. Enrollments

- enrollment\_id (Primary Key)
- student\_id (Foreign Key)
- course\_id (Foreign Key)
- enrollment date

#### 4. Teacher

- teacher\_id (Primary Key)
- first\_name
- last\_name
- email

### 5. Payments

- payment\_id (Primary Key)
- student\_id (Foreign Key)
- amount
- payment date

### Task 1. Database Design:

1. Create the database named "SISDB"

Query: create database StudentInformationSystem;

- 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

**Query:** create table students(student\_id int primary key auto\_increment, first\_name varchar(60) not null, last\_name varchar(60) not null, date\_of\_birth date, email varchar(50), phone\_number bigint unique);

b. Courses

**Query:** create table courses( course\_id int primary key auto\_increment, course\_name varchar(70), credits int check (credits > 0), teacher\_id int, fore ign key (teacher\_id) references teacher(teacher\_id));

c. Enrollments

Query: create table enrollments (enrollment\_id int primary key auto\_incremen t, student\_id int, course\_id int, enrollment\_date date, foreign key(stud ent\_id) references students(student\_id) on delete cascade, foreign key(cours e\_id) references courses(course\_id) on delete cascade);





d. Teacher

**Query:** create table teacher(teacher\_id int primary key auto\_increment, first\_name varchar(60), last\_name varchar(60), email varchar(60));

e. Payments

**Query:** create table payments(payment\_id int primary key auto\_increment ,student\_id int, amount int, payment\_date date , foreign key(student\_id) references students(student\_id) on delete cascade);

- 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

9876543212),

Query: INSERT INTO students (first\_name, last\_name, date\_of\_birth, email, phone\_number) VALUES ('Arun', 'Subramanian', '2001-02-15', 'arun.subramanian@email.com', 9876543211), ('Deepika', 'Ramachandran', '2000-06-25', 'deepika.ramachandran@email.com',

('Praveen', 'Venkatesan', '1999-10-10', 'praveen.venkatesan@email.com', 9876543213), ('Meena', 'Krishnan', '2002-03-30', 'meena.krishnan@email.com', 9876543214), ('Karthik', 'Srinivasan', '2000-07-08', 'karthik.srinivasan@email.com', 9876543215), ('Sowmya', 'Balasubramaniam', '2001-12-12', 'sowmya.balasubramaniam@email.com', 9876543216),

('Vignesh', 'Rajendran', '1998-05-20', 'vignesh.rajendran@email.com', 9876543217), ('Aishwarya', 'Thirumalai', '2003-09-05', 'aishwarya.thirumalai@email.com', 9876543218),

('Gokul', 'Panneerselvam', '1999-11-22', 'gokul.panneerselvam@email.com', 9876543219),

('Divya', 'Sundararajan', '2002-08-14', 'divya.sundararajan@email.com', 9876543220);

ii. Courses

**Query:** INSERT INTO courses (course\_name, credits, teacher\_id) VALUES ('Database Management Systems', 3, 1),

('Computer Networks', 4, 2),

('Artificial Intelligence', 3, 3),

('Software Engineering', 3, 4),

('Machine Learning', 4, 5),

('Cloud Computing', 3, 6),

('Cybersecurity Fundamentals', 3, 7),

('Operating Systems', 4, 8),

('Data Structures and Algorithms', 4, 9),

('Web Development', 3, 10);

iii. Enrollments

Query: INSERT INTO enrollments (student id, course id, enrollment date) VALUES





```
(2, 5, '2025-02-15'),
(3, 1, '2025-03-05'),
(4, 7, '2025-01-22'),
(5, 2, '2025-02-28'),
(6, 6, '2025-03-10'),
(7, 4, '2025-01-18'),
(8, 9, '2025-02-20'),
(9, 8, '2025-03-15'),
(10, 10, '2025-01-25');
iv.
        Teacher
Query: INSERT INTO teacher (first name, last name, email) VALUES
('Murugan', 'Srinivasan', 'murugan.srinivasan@email.com'),
('Lakshmi', 'Balakrishnan', 'lakshmi.balakrishnan@email.com'),
('Arun', 'Chidambaram', 'arun.chidambaram@email.com'),
('Revathi', 'Ramaswamy', 'revathi.ramaswamy@email.com'),
('Venkatesh', 'Subramaniam', 'venkatesh.subramaniam@email.com'),
('Meenakshi', 'Krishnamurthy', 'meenakshi.krishnamurthy@email.com'),
('Karthikeyan', 'Rajagopal', 'karthikeyan.rajagopal@email.com'),
('Sowmya', 'Palanisamy', 'sowmya.palanisamy@email.com'),
('Gopinath', 'Thiruvengadam', 'gopinath.thiruvengadam@email.com'),
('Priya', 'Vasudevan', 'priya.vasudevan@email.com');
        Payments
Query: INSERT INTO payments (student_id, amount, payment_date) VALUES
(1, 5000, '2025-01-05'),
(2, 4500, '2025-02-10'),
(3, 6000, '2025-03-15'),
(4, 5200, '2025-01-20'),
(5, 5800, '2025-02-25'),
(6, 4900, '2025-03-05'),
(7, 5500, '2025-01-30'),
(8, 5300, '2025-02-12'),
(9, 6200, '2025-03-18'),
```

### Tasks 2: Select, Where, Between, AND, LIKE:

(1, 3, '2025-01-10'),

- 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

(10, 4700, '2025-01-08');





**Query:** INSERT INTO students (first\_name, last\_name, date\_of\_birth, email, phone\_number) VALUES ('John', 'Doe', '1995-08-15', 'john.doe@example.com', 1234567890);

tudent_id	first_name	last_name	date_of_birth	email	phone_numbe
1	Arun	Subramanian	   2001–02–15	arun.subramanian@email.com	987654321
2	Deepika	Ramachandran	2000-06-25	deepika.ramachandran@email.com	987654321
3	Praveen	Venkatesan	1999-10-10	praveen.venkatesan@email.com	987654321
4	Meena	Krishnan	2002-03-30	meena.krishnan@email.com	987654321
5	Karthik	Srinivasan	2000-07-08	karthik.srinivasan@email.com	987654321
6	Sowmya	Balasubramaniam	2001-12-12	sowmya.balasubramaniam@email.com	987654321
7	Vignesh	Rajendran	1998-05-20	vignesh.rajendran@email.com	987654321
8	Aishwarya	Thirumalai	2003-09-05	aishwarya.thirumalai@email.com	987654321
9	Gokul	Panneerselvam	1999-11-22	gokul.panneerselvam@email.com	987654321
10	Divya	Sundararajan	2002-08-14	divya.sundararajan@email.com	987654322
11	John	Doe	1995-08-15	john.doe@example.com	123456789

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.

**Query:** insert into enrollments(student\_id,course\_id,enrollment\_date) values (11,8, '2025-03-20');

mysql> select * f	rom enrollmer	nts; 	<b>+</b>
enrollment_id	student_id	course_id	enrollment_date
1	1	3	2025-01-10
2	2	5	2025-02-15
3	3	1	2025-03-05
4	4	7	2025-01-22
5	5	2	2025-02-28
6	6	6	2025-03-10
j 7 j	7	4	2025-01-18
8	8	9	2025-02-20
9	9	8	2025-03-15
j 10 j	10	10	2025-01-25
j 12 j	11	8	2025-03-20
+			++
11 rows in set (0	).00 sec)		

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

Query: update teacher set email="revathir@gmail.com" where first\_name="revathi";





teacher_id	first_name	last_name	email email
1	Murugan	Srinivasan	murugan.srinivasan@email.com
2	Lakshmi	Balakrishnan	lakshmi.balakrishnan@email.com
3	Arun	Chidambaram	arun.chidambaram@email.com
4	Revathi	Ramaswamy	revathir@gmail.com
5	Venkatesh	Subramaniam	venkatesh.subramaniam@email.com
6	Meenakshi	Krishnamurthy	meenakshi.krishnamurthy@email.com
7	Karthikeyan	Rajagopal	karthikeyan.rajagopal@email.com
8	Sowmya	Palanisamy	sowmya.palanisamy@email.com
9	Gopinath	Thiruvengadam	gopinath.thiruvengadam@email.com
10	Priya	Vasudevan	priya.vasudevan@email.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.

Query: delete from enrollments where enrollment\_id=12;

enrollment_id	student_id	course_id	enrollment_date
1	1	3	2025-01-10
2	2	5	2025-02-15
3	3	1	2025-03-05
4	4	7	2025-01-22
5	5	2	2025-02-28
6	6	6	2025-03-10
7	7	4	2025-01-18
8	8	9	2025-02-20
9	9	8	2025-03-15
10	10	10	2025-01-25

5. Update the "Courses" table to assign a specific teacher to a course. Choose any course and teacher from the respective tables.

Query: update courses set teacher\_id=10 where course\_name="Machine learning";

course_id	course_name	credits	teacher_id
1	Database Management Systems	3	1
2	Computer Networks	4	2
3	Artificial Intelligence	3	3
4	Software Engineering	3	4
5	Machine Learning	4	10
6	Cloud Computing	3	6
7	Cybersecurity Fundamentals	3	7
8	Operating Systems	4	8
9	Data Structures and Algorithms	4	9
10	Web Development	3	10





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.

Query: delete from students where student\_id=10;

student_id	first_name	last_name	date_of_birth	email	phone_number
1	Arun	Subramanian	   2001-02-15	arun.subramanian@email.com	   9876543211
2	Deepika	Ramachandran	2000-06-25	deepika.ramachandran@email.com	9876543212
3	Praveen	Venkatesan	1999-10-10	praveen.venkatesan@email.com	9876543213
4	Meena	Krishnan	2002-03-30	meena.krishnan@email.com	9876543214
5	Karthik	Srinivasan	2000-07-08	karthik.srinivasan@email.com	9876543215
6	Sowmya	Balasubramaniam	2001-12-12	sowmya.balasubramaniam@email.com	9876543216
7	Vignesh	Rajendran	1998-05-20	vignesh.rajendran@email.com	9876543217
8	Aishwarya	Thirumalai	2003-09-05	aishwarya.thirumalai@email.com	9876543218
9	Gokul	Panneerselvam	1999-11-22	gokul.panneerselvam@email.com	9876543219
11	John	Doe	1995-08-15	john.doe@example.com	1234567890

mysql> select * +	from enrollmer	nts;	
enrollment_id	student_id	course_id	enrollment_date
1	1	3	2025-01-10
] 2	2	5	2025-02-15
] 3	3	1	2025-03-05
4	4	7	2025-01-22
5	5	2	2025-02-28
6	6	6	2025-03-10
7	7	4	2025-01-18
8	8	9	2025-02-20
9	9	8	2025-03-15
9 rows in set (0	.00 sec)		++

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

**Query:** update payments set amount=10000 where payment\_id=1;

nysql> select	* from paymer	nts;	·
payment_id	student_id	amount	payment_date
1	1	10000	2025-01-05
2	2	4500	2025-02-10
3	3	6000	2025-03-15
4	4	5200	2025-01-20
5	5	5800	2025-02-25
6	6	4900	2025-03-05
7	7	5500	2025-01-30
8	8	5300	2025-02-12
9	9	6200	2025-03-18
rows in set	(0.00 sec)	·	·





## 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.

**Query:** select students.student\_id , sum(payments.amount) from payments inner join students using(student id) where students.student id=1;

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.

**Query:** select courses.course\_name , count(enrollments.student\_id) count\_of\_students from courses courses join enrollments enrollments using(course\_id) group by courses.course\_name;

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.

**Query:** select students.first\_name , students.last\_name , enrollments.enrollment\_id from students students left join enrollments enrollments using(student\_id) where enrollments.enrollment\_id is 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.

**Query:** select students.first\_name, students.last\_name, courses.course\_name from students students join enrollments using(student\_id) join courses courses using (course\_id);

+	<b>-</b> ,	· · · · · · · · · · · · · · · · · ·
first_name	last_name	course_name
Arun Deepika Praveen Meena Karthik Sowmya Vignesh Aishwarya	Subramanian Ramachandran Venkatesan Krishnan Srinivasan Balasubramaniam Rajendran Thirumalai Panneerselvam	Artificial Intelligence   Machine Learning   Database Management Systems   Cybersecurity Fundamentals   Computer Networks   Cloud Computing   Software Engineering   Data Structures and Algorithms
9 rows in set	(0.00 sec)	++

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.

**Query**: select t.first\_name , t.last\_name , c.course\_name from teacher t join courses c using(teacher\_id);

```
mysql> select t.first_name , t.last_name , c.course_name from teacher t join courses c using(teacher_id);
 first_name
                last_name
                               | course_name
                Srinivasan
                                 Database Management Systems
 Murugan
 Lakshmi
                                 Computer Networks
                Balakrishnan
                                 Artificial Intelligence
 Arun
                Chidambaram
 Revathi
                                 Software Engineering
                Ramaswamy
 Meenakshi
                Krishnamurthy
                                 Cloud Computing
 Karthikeyan
                Rajagopal
                                 Cybersecurity Fundamentals
                Palanisamy
                                 Operating Systems
  Sowmya
 Gopinath
                Thiruvengadam
                                 Data Structures and Algorithms
                                 Machine Learning
Web Development
 Priva
                Vasudevan
 Priya
                Vasudevan
10 rows in set (0.00 sec)
```

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.

Query: SELECT s.first\_name, s.last\_name, e.enrollment\_date, c.course\_name FROM students s

JOIN enrollments e ON s.student\_id = e.student\_id JOIN courses c ON e.course\_id = c.course\_id

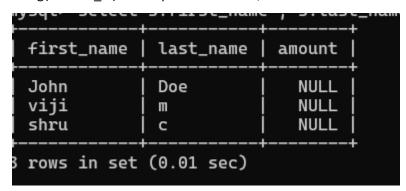
WHERE c.course\_name = 'Machine Learning';





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.

**Query:** select s.first\_name, s.last\_name, p.amount from students s left join payments p using(student id) where p.amount is null;



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.

**Query:**SELECT c.course\_id, c.course\_name

FROM courses c

LEFT JOIN enrollments e ON c.course\_id = e.course\_id

WHERE e.enrollment id IS NULL;



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.





Query: select e.student\_id , count(e.course\_id) from enrollments e join enrollments e1 on (
e.student\_id = e1.student\_id )group by e.student\_id having count(e.course\_id)>1;

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.

**Query:** select t.first\_name , t.last\_name from teacher t left join courses c on (t.teacher\_id = c.teacher\_id) where course\_id is null;

# Task 4. Subquery and its type:

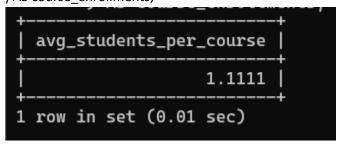
1. Write an SQL query to calculate the average number of students enrolled in each course. Use aggregate functions and subqueries to achieve this.

```
Query: SELECT AVG(student_count) AS avg_students_per_course FROM (

SELECT course_id, COUNT(student_id) AS student_count FROM enrollments

GROUP BY course id
```

) AS course enrollments;



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.

**Query:** select max(amount) as max\_amount from ( select student\_id , amount from payments) as maxx;





```
+-----+
| max_amount |
+------+
| 12000 |
+-----+
1 row in set (0.00 sec)
```

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

```
Query: SELECT course_id, COUNT(student_id) AS enrollment_count
```

**FROM** enrollments

GROUP BY course\_id

HAVING COUNT(student\_id) = (

SELECT MAX(enrollment\_count)

FROM (SELECT COUNT(student\_id) AS enrollment\_count FROM enrollments GROUP BY course\_id) AS counts

1 row in set (0.03 sec)

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

Query: SELECT teacher\_id,

(SELECT SUM(p.amount)

FROM enrollments e

JOIN payments p ON e.student\_id = p.student\_id

WHERE e.course\_id IN (SELECT course\_id FROM courses c WHERE c.teacher\_id = t.teacher\_id)

) AS total\_payments

FROM teacher t;





```
teacher_id |
                total_payments
            1
                            6000
            2
                            5800
            3
                           44000
            4
                            5500
            5
                            NULL
            6
                            4900
            7
                            5200
            8
                            6200
            9
                            5300
           10
                            4500
10 rows in set (0.01 sec)
```

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 student\_id

FROM enrollments

GROUP BY student\_id

HAVING COUNT(course\_id) = (SELECT COUNT(course\_id) FROM courses);

```
mysql> SELECT student_id
    -> FROM enrollments
    -> GROUP BY student_id
    -> HAVING COUNT(course_id) = (SELECT COUNT(course_id) FROM courses);
Empty set (0.04 sec)
```

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

Query: SELECT first\_name, last\_name

FROM teacher

WHERE teacher\_id NOT IN (SELECT DISTINCT teacher\_id FROM courses);





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

```
Query: SELECT AVG(age) AS average_age
FROM (
    SELECT TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE()) AS age
    FROM students
) AS student ages;
```

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

Query: SELECT course\_name

**FROM courses** 

WHERE course\_id NOT IN (SELECT DISTINCT course\_id FROM enrollments);

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

```
Query: SELECT student_id, course_id,

(SELECT SUM(amount)

FROM payments p

WHERE p.student_id = e.student_id) AS total_payments

FROM enrollments e;
```





+   student_id	course_id	+ total_payments
†   1	   3	+ 22000
2	5	4500
3	1	6000
4	7	5200
5	2	5800
6	6	4900
7	4	5500
8	9	5300
9	8	6200
1	3	22000
+ 10 rows in set	t (0.00 sec)	<del>-</del>

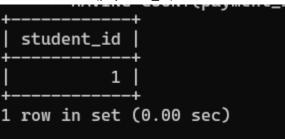
10. Identify students who have made more than one payment. Use subqueries and aggregate functions to count payments per student and filter for those with counts greater than one.

Query: SELECT student\_id

FROM payments

GROUP BY student\_id

HAVING COUNT(payment\_id) > 1;



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.

Query: SELECT s.student\_id, s.first\_name, s.last\_name, SUM(p.amount) AS total\_payments FROM students s

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	t+   total_payments
   1	Arun	Subramanian	
	Deepika	Ramachandran	4500
3	Praveen	Venkatesan	i 6000 i
4	Meena	Krishnan	5200
5	Karthik	Srinivasan	5800
6	Sowmya	Balasubramaniam	4900
7	Vignesh	Rajendran	5500
8	Aishwarya	Thirumalai	5300
9	Gokul	Panneerselvam	6200
rows in set	(0.00 sec)	·	++

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.

Query: SELECT c.course\_name, COUNT(e.student\_id) AS enrollment\_count

FROM courses c

LEFT JOIN enrollments e ON c.course\_id = e.course\_id

GROUP BY c.course\_id, c.course\_name;

course_name	enrollment_count
Database Management Systems	1
Computer Networks	1
Artificial Intelligence	] 2
Software Engineering	j 1 j
Machine Learning	j 1 j
Cloud Computing	j 1 j
Cybersecurity Fundamentals	j 1 j
Operating Systems	j 1 j
Data Structures and Algorithms	1
Web Development	j 0 j
·	++
.0 rows in set (0.02 sec)	

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.

Query: SELECT s.student\_id, s.first\_name, s.last\_name, AVG(p.amount) AS avg\_payment

FROM students s





JOIN payments p ON s.student\_id = p.student\_id

GROUP BY s.student\_id, s.first\_name, s.last\_name;

-> GROUP BY s.student_id, s.first_name, s.last_name;			
student_id	first_name	last_name	avg_payment
1	Arun	Subramanian	11000.0000
2	Deepika	Ramachandran	4500.0000
3	Praveen	Venkatesan	6000.0000
4	Meena	Krishnan	5200.0000
5	Karthik	Srinivasan	5800.0000
6	Sowmya	Balasubramaniam	4900.0000
7	Vignesh	Rajendran	5500.0000
8	Aishwarya	Thirumalai	5300.0000
9	Gokul	Panneerselvam	6200.0000
+		H	++
9 rows in set (0.02 sec)			