ASSIGNMENT STUDENT INFORMATION SYSTEM (SIS)

Tasks 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

```
mysql> USE SISDB;
Database changed
```

```
mysql> INSERT INTO STUDENTS (FIRST_NAME,LAST_NAME,DATE_OF_BIRTH,EMAIL,PHONE_
NUMBER)VALUES('JOHN','DOE','1995-08-15','john.doe@example.com','1234567890');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT*FROM STUDENTS;
```

STUDENT_ID	FIRST_NAME	LAST_NAME	DATE_OF_BIRTH	EMAIL	PHONE_NUMBER
1	RAM	KUMAR	2002-05-14	ram@gmail.com	9876543210
2	BOB	SMITH	2001-08-22	bob@gmail.com	9876543211
3	RAJ	VEL	2003-03-10	raj@gmail.com	9876543212
4	DAVID	RAV	2000-11-25	david@gmail.com	9876543213
5	AMAL	Davis	2002-07-17	amal@gmail.com	9876543214
6	KISHORE	ROY	2001-09-30	roy@gmail.com	9876543215
7	JASMINE	RAV	2003-02-18	jaz@gmail.com	9876543216
8	STELLA	MERRY	2000-06-12	stella@gmail.com	9876543217
9	Isaac	newton	2002-12-05	isaac@gmail.com	9876543218
10	RANI	RAM	2001-04-08	rani@gmail.com	9876543219
11	**JOHN**	**DOE**	**1995-08-15**	**john.doe@example.com**	**1234567890**

```
11 rows in set (0.00 sec)
```

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.

```
mysql> insert into enrollments(student_id, course_id, enrollment_date) values(
1,3,'2025-03-25');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select*from enrollments;
+---------------+------------+-----------+-----------------+
| ENROLLMENT_ID | STUDENT_ID | COURSE_ID | ENROLLMENT_DATE |
+---------------+------------+-----------+-----------------+
|             1 |          1 |         1 | 2024-01-10      |
|             2 |          2 |         2 | 2024-01-11      |
|             3 |          3 |         3 | 2024-01-12      |
|             4 |          4 |         4 | 2024-01-13      |
|             5 |          5 |         5 | 2024-01-14      |
|             6 |          6 |         6 | 2024-01-15      |
|             7 |          7 |         7 | 2024-01-16      |
|             8 |          8 |         8 | 2024-01-17      |
|             9 |          9 |         9 | 2024-01-18      |
|            10 |         10 |        10 | 2024-01-19      |
|            11 |          1 |         3 | 2025-03-25      |
+---------------+------------+-----------+-----------------+
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.

```
mysql> UPDATE Teachers
SET email = 'mercy.email@example.com'
WHERE teacher_id = 2;
```

```
mysql> select*from teachers;
+------------+------------+-----------+-------------------------+
| TEACHER_ID | FIRST_NAME | LAST_NAME | EMAIL                   |
+------------+------------+-----------+-------------------------+
|          1 | SONA       | KUMARI    | sona.@gmail.com         |
|          2 | MERCY      | PRINCE    | mercy.email@example.com |
|          3 | MARTIN     | RAJ       | martin@gmail.com        |
|          4 | RANJITH    | KUMAR     | ranjith@gmail.com       |
|          5 | SANJAY     | RAM       | sanjya@gmail.com        |
|          6 | DHIVYA     | PRIYA     | dhivi@gmail.com         |
|          7 | AKALYA     | MURUGESH  | akalya@gmail.com        |
|          8 | VARSHINI   | MARTIN    | varsh@gmail.com         |
|          9 | KOWSI      | LAKSHMI   | kowsi@gmail.com         |
|         10 | PRIYA      | RAV       | priyarav@gmail.com      |
+------------+------------+-----------+-------------------------+
10 rows in set (0.00 sec)
```

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.

```
mysql> delete from enrollments where student_id = 1 and course_id = 3;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select*from enrollments;
+---------------+------------+-----------+-----------------+
| ENROLLMENT_ID | STUDENT_ID | COURSE_ID | ENROLLMENT_DATE |
+---------------+------------+-----------+-----------------+
|             1 |          1 |         1 | 2024-01-10      |
|             2 |          2 |         2 | 2024-01-11      |
|             3 |          3 |         3 | 2024-01-12      |
|             4 |          4 |         4 | 2024-01-13      |
|             5 |          5 |         5 | 2024-01-14      |
|             6 |          6 |         6 | 2024-01-15      |
|             7 |          7 |         7 | 2024-01-16      |
|             8 |          8 |         8 | 2024-01-17      |
|             9 |          9 |         9 | 2024-01-18      |
|            10 |         10 |        10 | 2024-01-19      |
+---------------+------------+-----------+-----------------+
10 rows in set (0.00 sec)
```

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

```
mysql> update courses set teacher_id = 5 where course_id = 3;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1  Changed: 0  Warnings: 0
```

```
mysql> select*from courses;
+-----------+--------------+---------+------------+
| COURSE_ID | COURSE_NAME  | CREDITS | TEACHER_ID |
+-----------+--------------+---------+------------+
|         1 | JAVA         |       3 |          1 |
|         2 | python       |       4 |          2 |
|         3 | C#           |       3 |          5 |
|         4 | C            |       4 |          4 |
|         5 | C++          |       3 |          5 |
|         6 | JAVASCRIPT   |       3 |          6 |
|         7 | SQL          |       3 |          7 |
|         8 | HTML         |       3 |          8 |
|         9 | CSS          |       3 |          9 |
|        10 | DATA SCIENCE |       3 |         10 |
+-----------+--------------+---------+------------+
10 rows in set (0.00 sec)
```

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.

```
mysql> delete from students where student_id = 1;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT*FROM STUDENTS;
+------------+------------+-----------+---------------+----------------------+--------------+
| STUDENT_ID | FIRST_NAME | LAST_NAME | DATE_OF_BIRTH | EMAIL
 | PHONE_NUMBER |
+------------+------------+-----------+---------------+----------------------+--------------+
|          2 | BOB        | SMITH     | 2001-08-22    | bob@gmail.com        | 9876543211   |
|          3 | RAJ        | VEL       | 2003-03-10    | raj@gmail.com        | 9876543212   |
|          4 | DAVID      | RAV       | 2000-11-25    | david@gmail.com      | 9876543213   |
|          5 | AMAL       | Davis     | 2002-07-17    | amal@gmail.com       | 9876543214   |
|          6 | KISHORE    | ROY       | 2001-09-30    | roy@gmail.com        | 9876543215   |
|          7 | JASMINE    | RAV       | 2003-02-18    | jaz@gmail.com        | 9876543216   |
|          8 | STELLA     | MERRY     | 2000-06-12    | stella@gmail.com     | 9876543217   |
|          9 | Isaac      | newton    | 2002-12-05    | isaac@gmail.com      | 9876543218   |
|         10 | RANI       | RAM       | 2001-04-08    | rani@gmail.com       | 9876543219   |
|         11 | JOHN       | DOE       | 1995-08-15    | john.doe@example.com | 1234567890   |
+------------+------------+-----------+---------------+----------------------+--------------+
10 rows in set (0.00 sec)
```

```
mysql> SELECT*FROM ENROLLMENTS;
+---------------+------------+-----------+-----------------+
| ENROLLMENT_ID | STUDENT_ID | COURSE_ID | ENROLLMENT_DATE |
+---------------+------------+-----------+-----------------+
|             2 |          2 |         2 | 2024-01-11      |
|             3 |          3 |         3 | 2024-01-12      |
|             4 |          4 |         4 | 2024-01-13      |
|             5 |          5 |         5 | 2024-01-14      |
|             6 |          6 |         6 | 2024-01-15      |
|             7 |          7 |         7 | 2024-01-16      |
|             8 |          8 |         8 | 2024-01-17      |
|             9 |          9 |         9 | 2024-01-18      |
|            10 |         10 |        10 | 2024-01-19      |
+---------------+------------+-----------+-----------------+
9 rows in set (0.00 sec)
```

From both the students and enrollments table student_id = 1 got deleted .

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

```
mysql> update payments set amount = 500.00 where payment_id = 4;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select*from payments;
+------------+------------+---------+--------------+
| PAYMENT_ID | STUDENT_ID | AMOUNT  | PAYMENT_DATE |
+------------+------------+---------+--------------+
|          2 |          2 | 4500.00 | 2024-02-02   |
|          3 |          3 | 4800.00 | 2024-02-03   |
|          4 |          4 |  500.00 | 2024-02-04   |
|          5 |          5 | 4600.00 | 2024-02-05   |
|          6 |          6 | 4900.00 | 2024-02-06   |
|          7 |          7 | 5100.00 | 2024-02-07   |
|          8 |          8 | 5200.00 | 2024-02-08   |
|          9 |          9 | 5300.00 | 2024-02-09   |
|         10 |         10 | 5400.00 | 2024-02-10   |
+------------+------------+---------+--------------+
9 rows in set (0.00 sec)
```