

# ASSIGNMENT – 1

## STUDENT INFORMATION SYSTEM

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### 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](mailto:john.doe@example.com)
  - e. Phone Number: 1234567890

```
INSERT INTO Students (first_name, last_name, date_of_birth, email, phone_number)
-> VALUES ('John', 'Doe', '1995-08-15', 'john.doe@example.com', '1234567890');
```

Output:

```
mysql> SELECT * FROM Students ;
+-----+-----+-----+-----+-----+-----+
| student_id | first_name | last_name | date_of_birth | email | phone_number |
+-----+-----+-----+-----+-----+-----+
| 1 | Deva | Ramesh | 2003-09-29 | deva@gmail.com | 7305488113 |
| 2 | Deepak | Raj | 2003-09-19 | deepak@gmail.com | 1234567891 |
| 3 | Sri | Ganesh | 2004-09-30 | sri@gmail.com | 1234567892 |
| 4 | Deva | Balaji | 2003-06-06 | pavi@gmail.com | 1234567893 |
| 5 | Pavithra | Balaji | 2003-09-29 | pavipb@gmail.com | 1234567894 |
| 6 | Madhu | Deva | 2003-05-26 | madhu@gmail.com | 1234567895 |
| 7 | Shruthi | Shanmugam | 2002-09-29 | shruthi@gmail.com | 1234567896 |
| 8 | Karthick | Raj | 2000-02-21 | karthick@gmail.com | 1234567897 |
| 9 | Ramesh | Ramesh | 2002-08-12 | ramesh@gmail.com | 1234567898 |
| 10 | Madhavan | Magesh | 2003-05-06 | madhavan@gmail.com | 1234567899 |
| 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.

INSERT INTO Enrollments (student\_id, course\_id, enrollment\_date)

-> VALUES(1,5,codate());

Output:

```
mysql> SELECT * FROM Enrollments WHERE student_id = 1 AND course_id = 5;
+-----+-----+-----+-----+
| enrollment_id | student_id | course_id | enrollment_date |
+-----+-----+-----+-----+
|          11 |          1 |          5 | 2025-03-20      |
+-----+-----+-----+-----+
1 row 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.

update teacher set email='nithya@gmail.com' where teacher\_id=1;

Output:

```
mysql> select * from teacher where teacher_id=1;
+-----+-----+-----+-----+
| teacher_id | first_name | last_name | email          |
+-----+-----+-----+-----+
|          1 | Dr. Nithya | Brown     | nithya@gmail.com |
+-----+-----+-----+-----+
1 row 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> SELECT * FROM Enrollments;
+-----+-----+-----+-----+
| enrollment_id | student_id | course_id | enrollment_date |
+-----+-----+-----+-----+
|          1 |          1 |          1 | 2024-01-15      |
|          2 |          2 |          2 | 2024-01-16      |
|          3 |          3 |          3 | 2024-01-17      |
|          4 |          4 |          4 | 2024-01-18      |
|          5 |          5 |          5 | 2024-01-19      |
|          6 |          6 |          6 | 2024-01-20      |
|          7 |          7 |          7 | 2024-01-21      |
|          8 |          8 |          8 | 2024-01-22      |
|          9 |          9 |          9 | 2024-01-23      |
|         10 |         10 |         10 | 2024-01-24      |
|         11 |          1 |          5 | 2025-03-20      |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

DELETE FROM Enrollments WHERE student\_id = 1 AND course\_id = 5;

Output:

```
mysql> SELECT * FROM Enrollments;
+-----+-----+-----+-----+
| enrollment_id | student_id | course_id | enrollment_date |
+-----+-----+-----+-----+
| 1 | 1 | 1 | 2024-01-15 |
| 2 | 2 | 2 | 2024-01-16 |
| 3 | 3 | 3 | 2024-01-17 |
| 4 | 4 | 4 | 2024-01-18 |
| 5 | 5 | 5 | 2024-01-19 |
| 6 | 6 | 6 | 2024-01-20 |
| 7 | 7 | 7 | 2024-01-21 |
| 8 | 8 | 8 | 2024-01-22 |
| 9 | 9 | 9 | 2024-01-23 |
| 10 | 10 | 10 | 2024-01-24 |
+-----+-----+-----+-----+
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> SELECT * FROM courses;
+-----+-----+-----+-----+
| course_id | course_name | credits | teacher_id |
+-----+-----+-----+-----+
| 1 | Mathematics | 3 | 1 |
| 2 | Physics | 4 | 2 |
| 3 | Chemistry | 3 | 3 |
| 4 | Biology | 4 | 4 |
| 5 | Computer Science | 3 | 5 |
| 6 | History | 2 | 6 |
| 7 | Economics | 3 | 7 |
| 8 | English Literature | 3 | 8 |
| 9 | Psychology | 3 | 9 |
| 10 | Business Management | 4 | 10 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

Update courses set teacher\_id=3 where course\_id=8;

Output:

```
mysql> select * from courses where course_id=8;
+-----+-----+-----+-----+
| course_id | course_name | credits | teacher_id |
+-----+-----+-----+-----+
| 8 | English Literature | 3 | 3 |
+-----+-----+-----+-----+
1 row 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> SELECT * FROM Enrollments WHERE student_id = 5;
+-----+-----+-----+-----+
| enrollment_id | student_id | course_id | enrollment_date |
+-----+-----+-----+-----+
|          5   |          5 |          5 | 2024-01-19      |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

**DELETE FROM Students WHERE student\_id = 5;**

**Output:**

```
mysql> SELECT * FROM Students WHERE student_id = 5;
Empty set (0.00 sec)

mysql> SELECT * FROM Enrollments WHERE student_id = 5;
Empty 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.

**update payments set amount=50000 where payment\_id=3;**

**Output:**

```
mysql> SELECT * FROM Payments WHERE student_id = 3;
+-----+-----+-----+-----+
| payment_id | student_id | amount   | payment_date |
+-----+-----+-----+-----+
|          3 |          3 | 50000.00 | 2024-02-03   |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```