

# **SQL LAB-3**

## **RDBMS, MYSQL**

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## QUESTIONS

Lab 1. For this assignment, please use the same tables created in your previous lab session.

Task 1: Update the Student table with the following information:

Change the email to 'jane\_Smith@example.com'

Where FirstName is 'Jane' and LastName is 'Smith';

Update the Instructor with the following information:

Change the email to 'rogerwhite@example.com'

Where FirstName of the instructor is 'Roger' and LastName is 'White';

Task 2:

Delete record from the Student table on following condition:

Delete student/students records from the Student table where last name is Smith.

Task 3: List the student whose first name starts with J.

**Task 1: Update the Student table with the following information:**

- Change the email to 'jane\_Smith@example.com' 'Where FirstName is 'Jane' and LastName is 'Smith';

**Code:-**

-- The below query updates the email address of a student named Jane Smith to jane\_Smith@example.com

```
mysql> Update students set Email='jane_Smith@example.com' where FirstName='Jane' And LastName='Smith';
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

**Output:-**

```
mysql> select *from students;
+-----+-----+-----+-----+-----+-----+-----+
| StudentID | FirstName | LastName | DateOfBirth | Gender | Email | Phone |
+-----+-----+-----+-----+-----+-----+-----+
| 481 | Rajitha | Lingutla | 2002-06-21 | Female | rajitha@gmail.com | 1934756782 |
| 482 | Jane | Smith | 1999-02-20 | Male | jane_Smith@example.com | 8987654329 |
| 483 | Cara | Wins | 2001-03-25 | Female | cara.wins@example.com | 1122334458 |
| 484 | David | Johnson | 2002-04-30 | Male | david.johnson@example.com | 2233445568 |
| 485 | Eva | Brown | 1998-05-10 | Female | eva.brown@example.com | 3344556674 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

- Update the Instructor with the following information:
- Change the email to 'rogerwhite@example.com' Where FirstName of the instructor is 'Roger' and LastName is 'White';

Code:-

-- The below query updates the email address of a student named Roger White to rogerwhite@example.com

```
mysql> Update instructor set Email='rogerwhite@example.com' where FirstName='Roger' And LastName='White';
Query OK, 1 row affected (0.03 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

Output:-

```
mysql> select *from instructor;
+-----+-----+-----+-----+
| InstructorID | FirstName | LastName | Email |
+-----+-----+-----+-----+
| 1 | John | Doe | john.doe@example.com |
| 2 | Jane | Smith | jane.smith@example.com |
| 3 | Roger | White | rogerwhite@example.com |
| 4 | Sara | Williams | sara.williams@example.com |
| 5 | Tom | Brown | tom.brown@example.com |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## Task 2:

**Delete record from the Student table on following condition:**

**Delete student/students records from the Student table where last name is Smith.**

-- The below query DELETE statement removes all records from the 'enrollment' table where the 'StudentID' matches

-- the 'StudentID' of students whose 'LastName' is 'Smith' in the 'students' table.

```
mysql> DELETE FROM enrollment WHERE StudentID IN (
-> SELECT StudentID FROM students WHERE LastName = 'Smith'
-> );
```

-- The below query DELETE statement removes all records from the 'feedback' table where the 'StudentID' matches

-- the 'StudentID' of students whose 'LastName' is 'Smith' in the 'students' table.

```
mysql> DELETE FROM feedback WHERE StudentID IN (
-> SELECT StudentID FROM students WHERE LastName = 'Smith'
-> );
Query OK, 1 row affected (0.03 sec)
```

-- The below query DELETE statement removes all records from the 'score' table where the 'StudentID' matches

-- the 'StudentID' of students whose 'LastName' is 'Smith' in the 'students' table.

```
mysql> DELETE FROM score WHERE StudentID IN (  
-> SELECT StudentID FROM students WHERE LastName = 'Smith'  
-> );  
Query OK, 1 row affected (0.03 sec)
```

#### Code:-

-- The below query DELETE statement removes all records from the 'students' table where the last name is 'Smith'.

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

#### Output:-

```
mysql> Select *from students;  
+-----+-----+-----+-----+-----+-----+-----+  
| StudentID | FirstName | LastName | DateOfBirth | Gender | Email | Phone |  
+-----+-----+-----+-----+-----+-----+-----+  
| 481 | Rajitha | Lingutla | 2002-06-21 | Female | rajitha@gmail.com | 1934756782 |  
| 483 | Cara | Wins | 2001-03-25 | Female | cara.wins@example.com | 1122334458 |  
| 484 | David | Johnson | 2002-04-30 | Male | david.johnson@example.com | 2233445568 |  
| 485 | Eva | Brown | 1998-05-10 | Female | eva.brown@example.com | 3344556674 |  
+-----+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.00 sec)
```

#### Task 3: List the student whose first name starts with J.

-- This DELETE statement removes records from the 'enrollment' table for students whose first name starts with 'J'.

```
mysql> DELETE FROM enrollment WHERE StudentID IN (  
-> SELECT StudentID FROM students WHERE FirstName LIKE 'J%'  
-> );  
Query OK, 2 rows affected (0.03 sec)
```

-- This DELETE statement removes records from the 'feedback' table for students whose first name starts with 'J'.

```
mysql> DELETE FROM feedback WHERE StudentID IN (  
-> SELECT StudentID FROM students WHERE FirstName LIKE 'J%'  
-> );  
Query OK, 2 rows affected (0.00 sec)
```

-- This DELETE statement removes records from the 'score' table for students whose first name starts with 'J'.

```
mysql> DELETE FROM score WHERE StudentID IN (  
-> SELECT StudentID FROM students WHERE FirstName LIKE 'J%'  
-> );  
Query OK, 2 rows affected (0.03 sec)
```

Code:-

-- This DELETE statement removes records from the 'students' table for students whose first name starts with 'J'.

```
mysql> Delete from students where FirstName like 'J%';  
Query OK, 2 rows affected (0.03 sec)
```

Output:-

```
mysql> Select *from students;  
+-----+-----+-----+-----+-----+-----+-----+  
| StudentID | FirstName | LastName | DateOfBirth | Gender | Email | Phone |  
+-----+-----+-----+-----+-----+-----+-----+  
| 481 | Rajitha | Lingutla | 2002-06-21 | Female | rajitha@gmail.com | 1934756782 |  
| 485 | Eva | Brown | 1998-05-10 | Female | eva.brown@example.com | 3344556674 |  
+-----+-----+-----+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```