

# ***SQL MODULE***

## ***LAB - 3***

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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.

Submission: Create an SQL script file containing your solutions for all tasks

(queries). Name the file "lab\_assignment1.sql" Provide comments above each query to indicate the task number and the query's purpose.

Lab 2.Database Schema:

Consider a simple database with one tables: Employee

Employee Table:

- Columns: emp\_id (Primary Key), first\_name, last\_name, age, email

### Task 1: Insert Data

Write an SQL INSERT statement to insert data into the Employee table.

### Task 2: Retrieving Data

Write an SQL SELECT statement to retrieve the first\_name and last\_name of all employees from the Employee table.

### Task 3: Filtering Data

Write an SQL SELECT statement to retrieve the first\_name, last\_name, and age of employees who are older than 30 years.

### Task 4: Updating Data

Write an SQL UPDATE statement to increase the age of employees by 1 year for all employees older than 25.

Submission:

Create an SQL script file containing your solutions for all tasks (queries). Name the file "lab\_assignment2.sql" Provide comments above each query to indicate the task number and the query's purpose.

## Task -1:

```
mysql> update Instructor
-> SET email='rogerwhite@ex.com'
-> WHERE FirstName='Alice' LastName='Jhonson';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
for the right syntax to use near 'LastName='Jhonson'' at line 3
mysql> update Instructor
-> SET email = 'rogerwhite@ex.com'
-> WHERE FirstName = 'Carol' AND LastName = 'Davis';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from instructor;
+----+-----+-----+-----+
| ID | FirstName | LastName | email |
+----+-----+-----+-----+
| 1 | John | Doe | john.doe@example.com |
| 2 | Jane | Smith | jane.smith@example.com |
| 3 | Alice | Johnson | alice.johnson@example.com |
| 4 | Bob | Brown | bob.brown@example.com |
| 5 | Carol | Davis | rogerwhite@ex.com |
+----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> delete from student_info
-> WHERE LastName = 'Smith';
Query OK, 1 row affected (0.34 sec)

mysql> select * from student_info;
```

## Task -2

```
mysql> select * from student_info;
```

StuId	FirstName	LastName	DOB	gender	email	ph
2	Rohit	Sharma	1995-02-14	M	janeSmith@ex.com	12367901
3	Carol	Williams	1996-03-30	F	carol.will@cric.com	3456789012
4	David	Brown	1995-08-22	M	david.br@cric.com	4567890123
5	Eve	Davis	1993-11-05	F	eve.davis@cric.com	5678901234

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

## TASK -3

```
mysql> SELECT * FROM Student
```

```
-> WHERE FirstName LIKE 'D%';
```

```
ERROR 1146 (42S02): Table 'studentmanagementsystem.student' doesn't exist
```

```
mysql> SELECT * FROM Student_info
```

```
-> WHERE FirstName LIKE 'D%';
```

StuId	FirstName	LastName	DOB	gender	email	ph
4	David	Brown	1995-08-22	M	david.br@cric.com	4567890123

```
1 row in set (0.23 sec)
```

## TASK - 4

```
mysql> INSERT INTO Employee (emp_id, first_name, last_name, age, email) values
```

```
-> (1, 'John', 'Doe', 35, 'john.doe@example.com'),
```

```
-> (2, 'Jane', 'Smith', 28, 'jane.smith@ex.com'),
```

```
-> (3, 'Michael', 'Johnson', 40, 'mic.joh@ex.com');
```

```
Query OK, 3 rows affected (0.29 sec)
```

```
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from employee;
```

emp_id	first_name	last_name	age	email
1	John	Doe	35	john.doe@example.com
2	Jane	Smith	28	jane.smith@ex.com
3	Michael	Johnson	40	mic.joh@ex.com

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

## TASK -5

```
mysql> SELECT first_name, last_name FROM Employee;
```

first_name	last_name
John	Doe
Jane	Smith
Michael	Johnson

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

## TASK – 6

```
mysql> SELECT first_name, last_name, age FROM Employee  
       -> WHERE age > 30;
```

first_name	last_name	age
John	Doe	35
Michael	Johnson	40

2 rows in set (0.00 sec)

```
mysql> |
```

Activate  
Go to Settings

## TASK -7

```
mysql> select * from employee;
```

emp_id	first_name	last_name	age	email
1	John	Doe	36	john.doe@example.com
2	Jane	Smith	29	jane.smith@ex.com
3	Michael	Johnson	41	mic.joh@ex.com

3 rows in set (0.03 sec)