

Python – Update Records in MySQL Table

This module guides you how to issue a SQL UPDATE (with SET & WHERE) command from Python application to update records in MySQL table.

Sometimes we need to change the spelling of a name of a student. For example, changing the name 'Thilini' to 'Tilini'. First, we need to find the particular record as described in an earlier module. Either you can search the name of the student or the relevant indexno.

UPDATE command

```
UPDATE personal SET name = 'Tilini' WHERE name = 'Thilini' or
UPDATE personal SET name = 'Tilini' WHERE indexno = '013'
```

Complete python code is given as below



```
dbupdate1.py - C:\Users\Prabhath\OneDrive\Desktop\Python Lesson\dbupdate1.py (3.8.2)
File Edit Format Run Options Window Help
import mysql.connector

mydb = mysql.connector.connect(
    host = 'localhost',
    database = 'student',
    user = 'root',
    password = '',
)

mycursor=mydb.cursor()

sql = "UPDATE personal SET name = 'Tilini' WHERE name = 'Thilini'"
mycursor.execute(sql)

mydb.commit()

print(mycursor.rowcount, "record updated.")
```

Save this program as **dbupdate1** and run the program. It displayed '1 record updated' message on the screen and change the name from Thilini to Tilini.

See what happen when you run the above programm again. Run it again. You will see '0 records updated' message on the screen as that time no record with name 'Thilini' as it is already changed earlier.

OK! Let's try to change the name back to original 'Thilini' in this way. Change the SQL statement as follows.

```
sql = "UPDATE personal SET name = 'Thilini' WHERE indexno = '013'"
mycursor.execute(sql)
```

Save the program as dbupdate2 and run it.

Check your table data.

SQL injection and other SQL issues

To prevent SQL injections and other SQL issues, use python variable in the Update query to update MySQL table.

Say, to change the student name 'Chathura' to 'Chatura' with indexno '014'.

```
sql = "UPDATE personal SET name = %s WHERE indexno = %s"  
val = ('Chatura', '014')  
mycursor.execute(sql, val)
```

Save the program as **dbupdate3** and run it.