

Exercise 3

Create a table student table (regno, name and marks in 3 subjects) using MySQL and perform the following:

- 🔗 To accept the details of students and store it in database.
- 🔗 To display the details of all the students.
- 🔗 Delete particular student record using regno.

Code

```
from tabulate import tabulate
import mysql.connector
cn = mysql.connector.connect(
    host="localhost",
    user="root",
    password="4321234",
    database="studentdb"
)
cursor = cn.cursor()

while True:
    choice = int(input("\n1. Accept student details\n2. Display details of all the
students\n3. Delete details of a particular student\n4. Exit\nEnter your choice: "))
    if choice == 1:
        n = int(input('Enter the number of students: '))
        for s in range(1, n+1):
            regno = input(f'Enter register number of student {s}: ')
            name = input(f'Enter the name of student {s}: ')
            marks1, marks2, marks3 = input(f'Enter the marks of student {s} in three
subjects: ').split()
            values = (regno, name, marks1, marks2, marks3)
            cursor.execute("INSERT INTO student (regno, name, marks1, marks2,
marks3) VALUES (%s, %s, %s, %s, %s)", values)
            cn.commit()
            print(f"Record of student with register number {regno} inserted
successfully.")
        elif choice == 2:
            cursor.execute("SELECT * FROM student")
            records = cursor.fetchall()
            data = []
            for record in records:
                data.append(record)
            headers = ["Register Number", "Name", "Marks of Subject 1", "Marks of Subject
2", "Marks of Subject 3"]
            print(tabulate(data, headers, tablefmt="pretty"))
        elif choice == 3:
            regno = input(f'Enter regno of student to delete the record: ')
            values = (regno,)
            cursor.execute("DELETE FROM student WHERE regno = %s", values)
            cn.commit()
            print(f"Record of student with register number {regno} deleted
successfully.")
        elif choice == 4:
            print('Terminating..!')
            break
        else:
            print('Invalid choice..!')

cn.close()
```

Output

```
1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit
Enter your choice: 1
```

Enter the number of students: 3
 Enter register number of student 1: 101
 Enter the name of student 1: ASHRAY
 Enter the marks of student 1 in three subjects: 78 89 87
 Record of student with register number 101 inserted successfully.
 Enter register number of student 2: 102
 Enter the name of student 2: NAYANA
 Enter the marks of student 2 in three subjects: 89 87 68
 Record of student with register number 102 inserted successfully.
 Enter register number of student 3: 103
 Enter the name of student 3: ISHAN
 Enter the marks of student 3 in three subjects: 87 78 77
 Record of student with register number 103 inserted successfully.

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit

Enter your choice: 2

Register Number	Name	Marks of Subject 1	Marks of Subject 2	Marks of Subject 3
101	ASHRAY	78	89	87
102	NAYANA	89	87	68
103	ISHAN	87	78	77

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit

Enter your choice: 3

Enter regno of student to delete the record: 103
 Record of student with register number 103 deleted successfully.

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit

Enter your choice: 2

Register Number	Name	Marks of Subject 1	Marks of Subject 2	Marks of Subject 3
101	ASHRAY	78	89	87
102	NAYANA	89	87	68

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit

Enter your choice: 3

Enter regno of student to delete the record: 101
 Record of student with register number 101 deleted successfully.

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit

Enter your choice: 2

```

+-----+-----+-----+-----+-----+
| Register Number | Name | Marks of Subject 1 | Marks of Subject 2 | Marks of Subject 3 |
+-----+-----+-----+-----+-----+
|      102      | NAYANA |      89      |      87      |      68      |
+-----+-----+-----+-----+-----+

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit
Enter your choice: 3
Enter regno of student to delete the record: 102
Record of student with register number 102 deleted successfully.

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit
Enter your choice: 2
+-----+-----+-----+-----+-----+
| Register Number | Name | Marks of Subject 1 | Marks of Subject 2 | Marks of Subject 3 |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit
Enter your choice: 5
Invalid choice..!

1. Accept student details
2. Display details of all the students
3. Delete details of a particular student
4. Exit
Enter your choice: 4
Terminating..!

```

Date of Submission		Signature of the Faculty	
Remarks			