DBMSL Assignment No- 8

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Batch - T1

Program

```
import mysql.connector
from mysql.connector import Error
from tabulate import tabulate

print("\nHellow User !!")

try:
    connection = mysql.connector.connect(host='localhost',
                database='dbms',user='root', password='Root@123')

    if connection.is_connected():
        db_Info = connection.get_server_info()
        print("\nYou're Connected to MySQL Server version ", db_Info)
        cursor = connection.cursor()
        cursor.execute("select database();")
        record = cursor.fetchone()
        print("You're Connected to Database: ", record)

        def insert():
            print("We are inserting Data...\n")
            rn = int(input("Enter Roll No : "))
            nam = input("Enter Name : ")
            mark = int(input("Enter Marks : "))
            sql = "INSERT INTO info (roll_no,name,marks) VALUES (%s,%s, %s)"
            val = (rn,nam,mark)
            cursor.execute(sql, val)
            connection.commit()
            print(cursor.rowcount, "record inserted.")


        def display():
            print("We are displaying Data...\n")
            cursor.execute("SELECT * FROM info order by roll_no")
            myresult = cursor.fetchall()
            print(tabulate(myresult, headers=["RN", "Name","Marks"]))

        def delete():
            print("We are deleting Data...\n")
            rn = int(input("Enter Roll No to Delete : "))
            sql = "DELETE FROM info WHERE roll_no = %s"
            val = (rn,)
            cursor.execute(sql,val)
            connection.commit()
            print(cursor.rowcount, "record(s) deleted")

        def update():
            print("We are updating Data...\n")
            rn = int(input("Enter Roll No to Upadte : "))
```

```python
            rn_new = int(input("Enter New Roll No : "))
            name_new = input("Enter New Name : ")
            marks_new = int(input("Enter New Marks : "))
            sql = "UPDATE info SET roll_no = %s, name = %s, marks = %s
                WHERE roll_no = %s"
            val = (rn_new,name_new,marks_new,rn)
            cursor.execute(sql,val)
            connection.commit()
            print(cursor.rowcount, "record(s) affected")

        while True:

            print('''
                ****** MENU ******
                *    1] Insert    *
                *    2] Display   *
                *    3] Update    *
                *    4] Delete    *
                *    5] Exit      *
                ******************
                ''')

            ch = int(input("Enter your choice :- "))
            print()
            if (ch==1):
                insert()

            elif (ch==2):
                display()

            elif (ch==3):
                update()

            elif (ch==4):
                delete()

            elif (ch==5):
                print("Program Exited Successfully!!\n")
                break
            else:
                print("Invalid Selection.. Please Try Again !!\n")

except Error as e:
    print("Error while connecting to MySQL !!\n", e)

finally:
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed Successfully !!\n")
```

Output

```
Hellow User !!

You're Connected to MySQL Server version  8.0.34
You're Connected to Database:  ('dbms',)


     ****** MENU ******
     *    1] Insert    *
     *    2] Display   *
     *    3] Update    *
     *    4] Delete    *
     *    5] Exit      *
     ******************

Enter your choice :- 2

We are displaying Data...

  RN  Name       Marks
 ----  ------  -------
    1  Ravi         50
    2  Abhi         45


     ****** MENU ******
     *    1] Insert    *
     *    2] Display   *
     *    3] Update    *
     *    4] Delete    *
     *    5] Exit      *
     ******************

Enter your choice :- 1

We are inserting Data...

Enter Roll No : 3
Enter Name : Bhavik
Enter Marks : 48
1 record inserted.


     ****** MENU ******
     *    1] Insert    *
     *    2] Display   *
     *    3] Update    *
     *    4] Delete    *
     *    5] Exit      *
     ******************

Enter your choice :- 2

We are displaying Data...
```

```
   RN  Name      Marks
   ----  ------  -------
      1  Ravi         50
      2  Abhi         45
      3  Bhavik       48


       ****** MENU ******
       *     1] Insert    *
       *     2] Display   *
       *     3] Update    *
       *     4] Delete    *
       *     5] Exit      *
       ******************

Enter your choice :- 1

We are inserting Data...

Enter Roll No : 4
Enter Name : Vivek
Enter Marks : 49
1 record inserted.


       ****** MENU ******
       *     1] Insert    *
       *     2] Display   *
       *     3] Update    *
       *     4] Delete    *
       *     5] Exit      *
       ******************

Enter your choice :- 2

We are displaying Data...

   RN  Name      Marks
   ----  ------  -------
      1  Ravi         50
      2  Abhi         45
      3  Bhavik       48
      4  Vivek        49


       ****** MENU ******
       *     1] Insert    *
       *     2] Display   *
       *     3] Update    *
       *     4] Delete    *
       *     5] Exit      *
       ******************

Enter your choice :- 3

We are updating Data...
```

```
Enter Roll No to Upadte : 2
Enter New Roll No : 2
Enter New Name : Ram
Enter New Marks : 48
1 record(s) affected


        ****** MENU ******
        *    1] Insert    *
        *    2] Display   *
        *    3] Update    *
        *    4] Delete    *
        *    5] Exit      *
        ******************

Enter your choice :- 2

We are displaying Data...

   RN  Name      Marks
   ----  ------  -------
    1  Ravi        50
    2  Ram         48
    3  Bhavik      48
    4  Vivek       49


        ****** MENU ******
        *    1] Insert    *
        *    2] Display   *
        *    3] Update    *
        *    4] Delete    *
        *    5] Exit      *
        ******************

Enter your choice :- 4

We are deleting Data...

Enter Roll No to Delete : 4
1 record(s) deleted


        ****** MENU ******
        *    1] Insert    *
        *    2] Display   *
        *    3] Update    *
        *    4] Delete    *
        *    5] Exit      *
        ******************

Enter your choice :- 2

We are displaying Data...

   RN  Name      Marks
```

```
----   ------   -------
 1   Ravi          50
 2   Ram           48
 3   Bhavik        48


     ****** MENU ******
     *    1] Insert    *
     *    2] Display   *
     *    3] Update    *
     *    4] Delete    *
     *    5] Exit      *
     *****************

Enter your choice :- 5

Program Exited Successfully!!

MySQL connection is closed Successfully !!
```