

DBMS LAB – SEM 5

JEREMIAH THOMAS

106119055

WORKING WITH PYTHON AND MySQL

Design a simple database for Online Railway Reservation System using Python to access the back end MySQL database. The online reservation system must contain the following modules.

➤ main.py :

Contains calls to the 4 diff modules in the order as shown below

```
import deleteModule
import findModule
import updateModule
import insertModule

insertModule.insertFn()
findModule.findFn()
updateModule.updateFn()
deleteModule.deleteFn()
```

Q1. The insert module must be able to accept the seatno (primary key), name of the passenger, source station and destination station and store it in the database

➤ Insert Module:-

```
def insertFn():
    #Q1: insert module:-

    print("Q1. INSERT OPERATION")
    print("")

    #show table data before:-
    print("Table Before Insertion:-")
    cursor1.execute("select * from railres")
    for i in cursor1:
        print(i)
    print("")
```

```

print("Enter Seat Number:- ")
seatNo = input()
print("Enter Name:- ")
name = input()
print("Enter Source Address:- ")
src = input()
print("Enter Destination Address:- ")
dest = input()

insert_sql = "INSERT INTO railres (seatno, name, source, destination)
VALUES (%s,%s,%s, %s)"
insert_variables = (seatNo,name,src, dest)

cursor1.execute(insert_sql, insert_variables)
print(cursor1.rowcount, "record inserted.")
mydb.commit()

#show table data:-
print("")
print("Table After Insertion:-")
cursor1.execute("select * from railres")
print("")
for i in cursor1:
    print(i)
print("")

```

➤ OUTPUT:-

```

Command Prompt - python main.py
C:\Users\bijth\Desktop\sem-5\DMBS Lab\lab4>python main.py
Q1. INSERT OPERATION

Table Before Insertion:-
(1, 'Kevin', 'Bangalore', 'Chennai')
(2, 'Kumar', 'Mumbai', 'New Delhi')
(3, 'Mohammed', 'Coimbatore', 'Trichy')

Enter Seat Number:-
4
Enter Name:-
Singh
Enter Source Address:-
Mumbai
Enter Destination Address:-
Kochi
1 record inserted.

Table After Insertion:-
(1, 'Kevin', 'Bangalore', 'Chennai')
(2, 'Kumar', 'Mumbai', 'New Delhi')
(3, 'Mohammed', 'Coimbatore', 'Trichy')
(4, 'Singh', 'Mumbai', 'Kochi')

```

Q2) The find module must be able to accept the name of the passenger and display all the details of the corresponding passenger.

➤ Find Module:-

```
def findFn():
#Q2: Find module
    print("Q2. FIND OPERATION")
    print("")

    print("Enter the name for which you want to see reservation details :-")
    findName=input()

    sql = "select * from railres where name =%s"
    input_name = (findName, )
    cursor1.execute(sql, input_name)

    print("")
    print("The tuple of the name you asked for:-")
    for i in cursor1:
        print(i)
    print("")
```

➤ OUTPUT:-

Command Prompt - python main.py

Q2. FIND OPERATION

Enter the name for which you want to see reservation details :-
Mohammed

The tuple of the name you asked for:-
(3, 'Mohammed', 'Coimbatore', 'Trichy')

Q3. UPDATE OPERATION

Enter the unique seat no of the passenger whose destination is to be changed
_

Q3) The Update module must be able to update the destination of the passenger.

➤ Update Module:-

```
def updateFn():
    #Q3: Update
    print("Q3. UPDATE OPERATION")
    print("")

    print("Enter the unique seat no of the passenger whose destination is to be changed")
    user_seatNo = input()

    #show table tuple before:-

    sql = "select * from railres where seatno =%s"
    val = (user_seatNo, )
    cursor1.execute(sql, val)

    print("")
    print("Passenger data before updation:-")
    for i in cursor1:
        print(i)

    print("Enter the new Destination")
    newDest = input()

    update_sql = "UPDATE railres SET destination = %s WHERE seatno = %s"
    update_val = (newDest, user_seatNo)
    cursor1.execute(update_sql, update_val)

    mydb.commit()

    #show table data:-

    cursor1.execute("select * from railres")
    print("")
    print("Updated Table:-")
    for i in cursor1:
        print(i)
    print("")
```

➤ OUTPUT:-

Command Prompt - python main.py

```
Q3. UPDATE OPERATION

Enter the unique seat no of the passenger whose destination is to be changed
1

Passenger data before updation:-
(1, 'Kevin', 'Bangalore', 'Chennai')
Enter the new Destination
Coimbatore

Updated Table:-
(1, 'Kevin', 'Bangalore', 'Coimbatore')
(2, 'Kumar', 'Mumbai', 'New Delhi')
(3, 'Mohammed', 'Coimbatore', 'Trichy')
(4, 'Singh', 'Mumbai', 'Kochi')
```

Q4) The delete module must be able to delete/ cancel the seat based on the seatno.

➤ Delete Module:-

```
def deleteFn():
    #Q4 : Delete:-
    print("Q4. DELETE OPERATION")
    print("")

    print("Enter the unique seatno registration that you would like to delete")
    user_seatNo = input()

    #show table data before:-

    print("")
    print("Table Data Before:-")
    cursor1.execute("select * from railres")
    print("")
    for i in cursor1:
        print(i)

    delete_sql = "delete from railres where seatno = %s"
    delete_val = (user_seatNo,)
    cursor1.execute(delete_sql, delete_val)

    mydb.commit()

    #show table data after:-
```

```
print("")
print("Table Data After:-")
cursor1.execute("select * from railres")
print("")
for i in cursor1:
    print(i)
print("")
```

➤ OUTPUT:-

```
Command Prompt

Q4. DELETE OPERATION

Enter the unique seatno registration that you would like to delete
4

Table Data Before:-

(1, 'Kevin', 'Bangalore', 'Coimbatore')
(2, 'Kumar', 'Mumbai', 'New Delhi')
(3, 'Mohammed', 'Coimbatore', 'Trichy')
(4, 'Singh', 'Mumbai', 'Kochi')

Table Data After:-

(1, 'Kevin', 'Bangalore', 'Coimbatore')
(2, 'Kumar', 'Mumbai', 'New Delhi')
(3, 'Mohammed', 'Coimbatore', 'Trichy')

C:\Users\bijth\Desktop\sem-5\DMBS Lab\lab4>
```

THANK YOU, MA'AM!
