Practical - 8 : Database Connectivity

Read a CSV File
Write functions for inserting Numeric Columns and Label Data Columns in to Database With Operations
a) add/ insert a record
b) modify a record
c) display a record
d) delete a record
e)Export data to CSV File After Operations
f) Represent as HTML Table

Code:

```
import mysql.connector

#Show all database  :
mydb=mysql.connector.connect(host='localhost',user='root',password='',port=
'3306')
mycursor=mydb.cursor()

c=mycursor.execute("Show databases ")
for i in mycursor:
         print(i)
mycursor.close()

#create database  :
mydb=mysql.connector.connect(host='localhost',user='root',password='',port=
'3306')
mycursor=mydb.cursor()
dbname=input('Enter Database name : ')

mycursor.execute("create database "+dbname)
print('Database name ',dbname,' created' )
mycursor.close()

#create table in it :
mydb=mysql.connector.connect(host='localhost',database="python",user='root'
,password='',port='3306')
mycursor=mydb.cursor()

mycursor.execute('Create table customers (id int(10)primary key,name
varchar(25),address varchar(50) )')
print('Table name customer created' )
mycursor.close()

#description of table :
import mysql.connector
mydb=mysql.connector.connect(host='localhost',database="python",user='root'
,password='',port='3306')
mycursor=mydb.cursor()

mycursor.execute('desc customers')
print('Description of table Customer : ' )
for i in mycursor:
         print(i)
mycursor.close()
```

```
#insert value into the customer :
mydb=mysql.connector.connect(host='localhost',database="python",user='root'
,password='',port='3306')
mycursor=mydb.cursor()
mycursor.execute("insert into customers (id, name, address)
values(1,'zeel','sola')")
print("1 row inserted !!")
mycursor.close()

#select the all data :
mydb=mysql.connector.connect(host='localhost',database="python",user='root'
,password='',port='3306')
mycursor=mydb.cursor()
mycursor.execute("select * from customers")
result=mycursor.fetchall()
print("------  Customer table Data --------")
for x in result:
        print(x,sep='\n')
mycursor.close()

#update data :
mydb=mysql.connector.connect(host='localhost',database="python",user='root'
,password='',port='3306')
mycursor=mydb.cursor()
mycursor.execute("update customers set address='gheekanta' where address
like 'sola' ")
print("row updated !!")
mycursor.close()

#Delete data :
mydb=mysql.connector.connect(host='localhost',database="python",user='root'
,password='',port='3306')
mycursor=mydb.cursor()
i=int(input('Enter id whichyou want to delete :  '))
mycursor.execute("delete customers where id= "+i)
print("row deleted !!")
mycursor.close()
```

Output:

```
('information_schema',)
('l8ecom',)
('l8ecomdb',)
('laravel8ecommercedb',)
('loginsystem',)
('mjvdb',)
('mysql',)
('performance_schema',)
('photo',)
('phpmyadmin',)
('prog2',)
('stock',)
('surfside_media',)
('test',)
('websitedb',)
Enter Database name : python
Database name  python  created
Table name customer created
Description of table Customer :
('id', 'int(10)', 'NO', 'PRI', None, '')
('name', 'varchar(25)', 'YES', '', None, '')
('address', 'varchar(50)', 'YES', '', None, '')
1 row inserted !!

1 row inserted !!
------  Customer table Data --------
row updated !!
```