

#### A.Y. 2022-2023

Subject: Python SAP ID: 60004220253 – Devansh Mehta

### Experiment No. 09

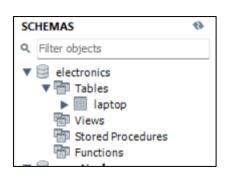
Aim: Program to demonstrate CRUD (create, read, update and delete) operations on database (SQLite/ MySQL) using python.

#### Code:

## **Creating database and table:**

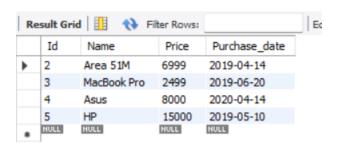
```
import mysql.connector
mydb = mysql.connector.connect(
host="localhost",
  user="root",
  password="root",
  database="electronics"

)
mycursor = mydb.cursor()
mycursor.execute("""CREATE TABLE Laptop (
Id int(11) NOT NULL,
Name varchar(250) NOT NULL,
Price float NOT NULL,
Purchase_date Date NOT NULL,
PRIMARY KEY (Id))""")
```



### **Inserting Records:**

```
mycursor = mydb.cursor()
sql = """INSERT INTO Laptop (Id, Name, Price, Purchase_date)
VALUES
(%s,%s,%s,%s) """
val = [(2, 'Area 51M', 6999, '2019-04-14'),(3, 'MacBook Pro', 2499, '2019-06-20'),
(4, 'Asus', 8000, '2020-04-14'),(5, 'HP', 15000, '2019-05-10')]
mycursor.executemany(sql, val)
mydb.commit()
```







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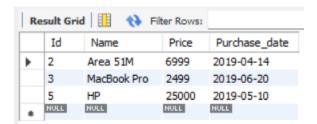
### **Deleting a record:**

mycursor.execute("DELETE FROM Laptop WHERE NAME = 'Asus' ") mydb.commit()



### **Updating a record:**

mycursor.execute("UPDATE Laptop SET Price = 25000 WHERE NAME = 'HP' ") mydb.commit()



## **Selecting records starting with A:**

mycursor.execute("SELECT \* FROM Laptop WHERE Name LIKE 'A%' ") myresult = mycursor.fetchall() for x in myresult: print(x)

PS C:\Users\devan\OneDrive\Desktop\Python Codes> pytho (2, 'Area 51M', 6999.0, datetime.date(2019, 4, 14))
PS C:\Users\devan\OneDrive\Desktop\Python Codes>

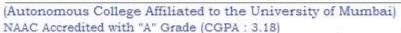
### Alter table:

mycursor.execute("ALTER TABLE Laptop ADD Year int(10) ") mydb.commit()



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Result Grid				Edit:	
	Id	Name	Price	Purchase_date	Year
•	2	Area 51M	6999	2019-04-14	NULL
	3	MacBook Pro	2499	2019-06-20	NULL
	5	HP	25000	2019-05-10	NULL
	NULL	NULL	NULL	NULL	NULL

## **Drop table and database:**

mycursor.execute("DROP TABLE Laptop")
print('Table Dropped')
mycursor.execute("DROP DATABASE electronics")
print('Database dropped')
mydb.commit()

PS C:\Users\devan\OneDrive\Desktop\Python Codes>

Table Dropped

Database dropped

PS C:\Users\devan\OneDrive\Desktop\Python Codes>