```
Create database Electronics;
```

For Checking Connection

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

try:
  connection = mysql.connector.connect(host='localhost',
                       database='Electronics',
                       user='pynative',
                       password='pynative@#29')
  if connection.is_connected():
    db_Info = connection.get_server_info()
    print("Connected to MySQL Server version ", db_Info)
    cursor = connection.cursor()
    cursor.execute("select database();")
    record = cursor.fetchone()
    print("You're connected to database: ", record)

except Error as e:
  print("Error while connecting to MySQL", e)
finally:
  if (connection.is_connected()):
    cursor.close()
    connection.close()
    print("MySQL connection is closed")
```

```
Connected to MySQL Server version
5.7.19

You're connected to database:
('electronics',)
```

Creation Of Table

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

try:
  connection = mysql.connector.connect(host='localhost',
                       database='Electronics',
                       user='pynative',
                       password='pynative@#29')

  mySql_Create_Table_Query = """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)) """

  cursor = connection.cursor()
  result = cursor.execute(mySql_Create_Table_Query)
  print("Laptop Table created successfully ")

except mysql.connector.Error as error:
  print("Failed to create table in MySQL: {}".format(error))
finally:
  if (connection.is_connected()):
    cursor.close()
    connection.close()
    print("MySQL connection is closed")
```

```
Laptop Table created
successfully

MySQL connection is closed
```

```
import mysql.connector
from mysql.connector import Error
from mysql.connector import errorcode

try:
   connection = mysql.connector.connect(host='localhost',
                                        database='electronics',
                                        user='root',
                                        password='pynative@#29')
   mySql_insert_query = """INSERT INTO Laptop (Id, Name, Price, Purchase_date)
                           VALUES
                           (10, 'Lenovo ThinkPad P71', 6459, '2019-08-14') """

   cursor = connection.cursor()
   cursor.execute(mySql_insert_query)
   connection.commit()
   print(cursor.rowcount, "Record inserted successfully into Laptop table")
   cursor.close()

except mysql.connector.Error as error:
   print("Failed to insert record into Laptop table {}".format(error))

finally:
   if (connection.is_connected()):
      connection.close()
      print("MySQL connection is closed")
```

```
Record inserted successfully
into Laptop table
MySQL connection is closed
```

Insertion Of Record

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

try:
   connection = mysql.connector.connect(host='localhost',
                                        database='Electronics',
                                        user='pynative',
                                        password='pynative@#29')

   sql_select_Query = "select * from Laptop"
   cursor = connection.cursor()
   cursor.execute(sql_select_Query)
   records = cursor.fetchall()
   print("Total number of rows in Laptop is: ",
  cursor.rowcount)
   print("\nPrinting each laptop record")
   for row in records:
      print("Id = ", row[0], )
      print("Name = ", row[1])
      print("Price  = ", row[2])
      print("Purchase date  = ", row[3], "\n")
  except Error as e:
   print("Error reading data from MySQL table", e)
  finally:
   if (connection.is_connected()):
      connection.close()
      cursor.close()
      print("MySQL connection is closed")
```

```
Total number of rows in Laptop is:  7
Printing each laptop record

Id =  1
Name =  Lenovo ThinkPad P71
Price  =  6459.0
Purchase date  =  2019-08-14

Id =  2
Name =  Area 51M
Price  =  6999.0
Purchase date  =  2019-04-14

Id =  3
Name =  MacBook Pro
Price  =  2499.0
Purchase date  =  2019-06-20

Id =  4
Name =  HP Pavilion Power
Price  =  1999.0
Purchase date  =  2019-01-11

Id =  5
Name =  MSI WS75 9TL-496
Price  =  5799.0
Purchase date  =  2019-02-27

Id =  6
Name =  Microsoft Surface
Price  =  2330.0
Purchase date  =  2019-07-23

Id =  7
Name =  Acer Predator Triton
Price  =  2435.0
Purchase date  =  2019-08-15

MySQL connection is closed
```

#updation of record

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

def updateLaptopPrice(id, price):
  try:
    connection = mysql.connector.connect(host='localhost',
                                         database='electronics',
                                         user='pynative',
                                         password='pynative@#29')

    cursor = connection.cursor()
    sql_update_query = """Update laptop set price = %s where id = %s"""
    inputData = (price, id)
    cursor.execute(sql_update_query, inputData)
    connection.commit()
    print("Record Updated successfully ")

  except mysql.connector.Error as error:
    print("Failed to update record to database: {}".format(error))
  finally:
    if (connection.is_connected()):
      cursor.close()
      connection.close()
      print("MySQL connection is closed")

updateLaptopPrice(7500, 1)
updateLaptopPrice(5000, 2)
```

```
Record Updated successfully
MySQL connection is closed
Record Updated successfully
MySQL connection is clos
```

```
import mysql.connector
from mysql.connector import Error
from datetime import datetime

try:
  connection = mysql.connector.connect(host='localhost',
                                       database='electronics',
                                       user='pynative',
                                       password='pynative@#29')
  cursor = connection.cursor()
  sql_update_query = """Update Laptop set Purchase_date = %s where id = %s"""

  current_Date = datetime.now()
  formatted_date = current_Date.strftime('%Y-%m-%d %H:%M:%S')
  id = 2
  input = (formatted_date, id)
  cursor.execute(sql_update_query, input)
  connection.commit()
  print("Purchased Date Updated successfully ")

except mysql.connector.Error as error:
  print("Failed to update purchased date {}".format(error))
finally:
  if (connection.is_connected()):
    connection.close()
    print("connection is closed")
```

```
Purchased Date Updated
successfully

connection is closed
```

#deletion of record

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

try:
   co..nection = mysql.connector.connect(host='localhost',
                                 database='electronics',
                                 user='pynative',
                                 password='pynative@#29')
   cursor = connection.cursor()
   print("Displaying laptop record Before Deleting it")
   sql_select_query = """select * from Laptop where id = 7"""
   cursor.execute(sql_select_query)
   record = cursor.fetchone()
   print(record)

   sql_Delete_query = """Delete from Laptop where id = 7"""
   cu..sor.execute(sql_Delete_query)
   connection.commit()

   cursor.execute(sql_select_query)
   records = cursor.fetchall()
   if len(records) == 0:
      print("\nRecord Deleted successfully ")

except mysql.connector.Error as error:
   print("Failed to delete record from table: {}".format(error))
finally:
   if (connection.is_connected()):
      cursor.close()
      connection.close()
      print("MySQL connection is closed")
```

```
Displaying laptop record Before Deleting it
(7, 'Acer Predator Triton', 2435.0, datetime.date(2019, 8, 17))

Record Deleted successfully
MySQL connection is closed
```

Id	Name	Price	Purchase_date
1	Lenovo ThinkPad P71	7000	2019-08-14
2	Area 51M	6999	2019-08-17
3	MacBook Pro	3000	2019-06-20
4	HP Pavilion	2200	2019-01-11
5	MSI WS75 9TL-496	5799	2019-02-27
6	Microsoft Surface	2330	2019-07-23

MySQL Laptop table after deleting a record