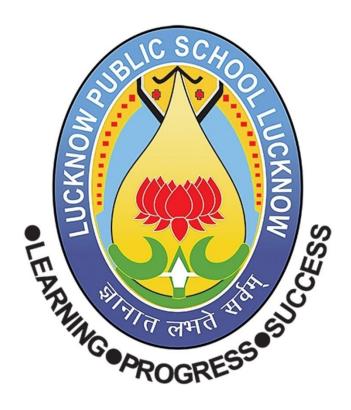
#### LUCKNOW PUBLIC SCHOOL

(C. P. SINGH FOUNDATION)



## **Project Report**

Informatics Practices (065)

(Session: 2022-23)

Student Name : Aditi Raj Srivastava

Class : XI

Section : A

Roll No. : 06

## **CERTIFICATE**

This is to certify that this work is submitted by Aditi Raj Srivastava to the Informatics Practices Department of Lucknow Public School Sector-F Jankipuram Lucknow and was carried out under the supervision and guidance of Head of Informatics Practices Mr. Abhay Pratap Singh during the Session 2022-2023.

Date	Teacher In charge
Principal	Examiner

## **ACKNOWLEDGEMENT**

I take this opportunity with great pleasure and respect to express my first and foremost thanks to the principal, "Mrs. Sushmita Sarkar" for her encouragement and for the facilities that she provided for this project work. I extend my hearty thanks to "Mr. Abhay Pratap Singh", Informatics Practices Teacher who guided me throughout the successful completion of this project. I take this opportunity to express my deep sense of gratitude for his guidance, constant encouragement, immense motivation, which has sustained my efforts at all the stages of this project.

I can't forget to offer my sincere thanks to the parents and to also my classmates who helped me to carry out this project work successfully and for their valuable advice and support, which I received from time to time.

> Aditi Raj Srivastava XI-A

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## **INTRODUCTION**

MySQL Connector/Python enables Python programs to access MySQL databases, using an API that is compliant with the Python Database API Specification v2.0 (PEP 249). It is written in pure Python and does not have any dependencies except for the Python Standard Library.

In the project, using MYSQL connector we have performed following tasks:

- Creating a database
- Creating table
- Inserting data into table
- Modifying and deleting data from table

# SOFTWARE AND HARDWARE REQUIREMENT

#### Software Specification: -

Operating system: Windows 10/8/7

Platform: Python IDLE 3.8, MySQL

Languages: Python

#### Hardware specification: -

Processor: Dual core or above

Hard Disk: 40 GB

RAM: 1024MB

#### Note:

Please install the following libraries before running the program:

- Python IDLE
- MySQL

### **SOURCE CODE**

```
import mysal.connector
conn = mysql.connector.connect(host="localhost",user="root",password="1234")
print(conn)
cr = conn.cursor()
cr.execute("CREATE DATABASE DBXIA")
print("-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+---DATABASE CREATED-+-+-+-+-+-+-+-+-+-+---")
while (True):
 cr.execute("use DBXIA")
 conn.commit()
print("============")
print(" MENU ")
print()
print("1 -> Create Table EMPL")
print("2 -> Insert data in Table EMPL")
print("3 -> Display Table EMPL")
print("4 -> Update data in Table EMPL")
print("5 -> Display data in Ascending order")
print("6 -> Drop Table EMPL")
print("============="")
ch=input("Enter your choice:")
if(ch=='1'):
 print()
 cr.execute("create table EMPL(EMPNO integer, ENAME varchar(25), JOB varchar(25), MGR
 varchar(20), HIREDATE DATE, SAL decimal, COMM varchar(20), DEPTNO integer)")
 conn.commit()
 print("-.-.-- TABLE CREATED SUCCESSFULLY -.-.-.")
 print()
 cr.execute("DESC EMPL")
 for i in cr:
   print(i)
 conn.commit()
elif (ch=='2'):
  print()
  cr.execute("INSERT INTO EMPL VALUES(8369, 'SMITH', 'CLERK', '8902', '1990-12-
  18',800.00,'NULL',20)")
 cr.execute("INSERT INTO EMPL VALUES(8499, 'ANYA', 'SALESMAN', '8698', '1991-02-
 20',1600.00,'300.00',30)")
 cr.execute("INSERT INTO EMPL VALUES(8521, 'SETH', 'SALESMAN', '8698', '1991-02-
 22',1250.00,'500.00',30)")
 cr.execute("INSERT INTO EMPL VALUES(8566, 'MAHADEVAN', 'MANAGER', '8839', '1991-
  04-02',2985.00,'NULL',20)")
 cr.execute("INSERT INTO EMPL VALUES(8654, 'MOMIN', 'SALESMAN', '8698', '1991-09-
 28',1250.00,'1400.00',30)")
 cr.execute("INSERT INTO EMPL VALUES(8698, 'BINA', 'MANAGER', '8839', '1991-05-
 01',2850.00,'NULL',30)")
 cr.execute("INSERT INTO EMPL VALUES(8839, 'AMIR', 'PRESIDENT', 'NULL', '1991-11-
```

```
18',5000.00,'NULL',10)")
 cr.execute("INSERT INTO EMPL VALUES(8844, 'KULDEEP', 'SALESMAN', '8698', '1991-09-
 08',1500.00,'0.00',30)")
 cr.execute("INSERT INTO EMPL VALUES(8882, 'SHIVANSH', 'MANAGER', '8839', '1991-06-
 09',2450.00,'NULL',10)")
 cr.execute("INSERT INTO EMPL VALUES(8886, 'ANOOP', 'CLERK', '8888', '1993-01-
 12',1100.00,'NULL',20)")
 cr.execute("INSERT INTO EMPL VALUES(8888, 'SCOTT', 'ANALYST', '8566', '1992-12-
 09'.3000.00.'NULL'.20)")
 cr.execute("INSERT INTO EMPL VALUES(8900, 'JATIN', 'CLERK', '8698', '1991-12-
 03',950.00,'NULL',30)")
 cr.execute("INSERT INTO EMPL VALUES(8902, FAKIR', 'ANALYST', '8566', '1991-12-
 03',3000.00,'NULL',20)")
 cr.execute("INSERT INTO EMPL VALUES(8934, 'MITA', 'CLERK', '8882', '1992-01-
 23',1300.00,'NULL',10)")
 conn.commit()
 print("============")
elif(ch=='3'):
 print()
 cr.execute("SELECT * FROM EMPL")
 for i in cr:
   print(i)
 conn.commit()
print()
elif (ch=='4'):
 alt = "UPDATE EMPL SET MGR = '8855' WHERE JOB = 'PRESIDENT'"
 cr.execute(alt)
 conn.commit()
 print()
elif (ch=='5'):
 cr.execute("SELECT * FROM EMPL ORDER BY ENAME")
for i in cr:
 print(i)
 conn.commit()
print()
elif (ch=='6'):
 print("-.-.---DROPPING TABLE EMPL -.-.-------")
 print()
 cr.execute("DROP TABLE EMPL")
 conn.commit()
 print("-.-.-- TABLE DROPPED SUCCESSFULLY -.-.---")
 print()
 print("================ THANK YOU ================="")
```

## **SOURCE CODE**

```
conn = mysql.connector.connect(host="localhost",user="root",password="1234")
print(conn)
cr = conn.cursor()
cr.execute("CREATE DATABASE DEXIA")
print("-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+---")
while (True):
   conn.commit()
   print("======
print(" MENU ")
   print()
print("1 -> Create Table EMPL")
   print("2 -> Insert data in Table EMPL")
print("3 -> Display Table EMPL")
   print("4 -> Update data in Table EMPL")
print("5 -> Display data in Ascending order")
print("6 -> Drop Table EMPL")
    ch=input("Enter your choice :")
    print()
print()
cr.execute("create table EMPL(EMPNO integer, ENAME varchar(25), JOB varchar(25), MGR varchar(20), HIREDATE DATE, SAL decimal,
       conn.commit()
                           -.-.- TABLE CREATED SUCCESSFULLY -.-.-.")
       cr.execute("DESC EMPL")
for i in cr:
       print(i)
conn.commit()
       print("==
    elif (ch=='2'):
```

```
File Edit Format Run Options
   conn.commit()
   print(":
   f (ch=='2'):
print("-.-.
   print("------")
print("-----")
print("-----")
 print()
cr.execute("SELECT * FROM EMPL")
   for i in cr:
print(i)
   conn.commit()
 elif (ch=='4'):
   alt = "UPDATE EMPL SET MGR = '8855' WHERE JOB = 'PRESIDENT'"
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                                                                     2
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```

## **OUTPUT**

```
***PRESHEDURY**
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3 -> Display Table Edepi
4 -> Update data in Table EMPL
5 -> Display data in Ascending order
6 -> Drop Table BMFL

Enter your choice :3

***COTT.** CLERK**, '8902', daterime, date(1990, 12, 18), Decimal('800'), 'NULL', 20)
(8649, 'NNTH', 'CLERK**, '8902', daterime, date(1991, 2, 20), Decimal('1800'), 'NULL', 20)
(8551, 'SETH, 'GRIEMANN, '8688', daterime, date(1991, 2, 20), Decimal('1800'), 'NULL', 20)
(8556, 'NHALEWAN', 'NHALEMANN, '8688', daterime, date(1991, 4, 2), Decimal('1285'), 'NULL', 20)
(8556, 'NHALEWAN', 'NHALEMAN', '8688', daterime, date(1991, 4, 2), Decimal('1285'), 'NULL', 20)
(8556, 'NHALEWAN', 'NHALEMAN', '8688', daterime, date(1991, 4, 2), Decimal('1285'), 'NULL', 20)
(8556, 'NHALEWAN', 'NHALEMAN', '8688', daterime, date(1991, 5, 1), Decimal('1285'), 'NULL', 20)
(8556, 'NHAL', 'RSISSNAN', '8688', daterime, date(1991, 1, 18), Decimal('1285'), 'NULL', 20)
(8556, 'NHAL', 'RSISSNAN', '8688', daterime, date(1991, 1, 18), Decimal('1500'), 'NULL', 30)
(8569, 'NHAL', 'RSISSNAN', '8688', daterime, date(1991, 1, 18), Decimal('1500'), 'NULL', 20)
(8684, 'NULLEE', 'SALESNAN', '8688', daterime, date(1991, 6, 9), Decimal('1500'), 'NULL', 20)
(8686, 'NHALYST, '8666', daterime, date(1991, 6, 9), Decimal('1500'), 'NULL', 20)
(8686, 'NHALYST, '8666', daterime, date(1991, 12, 9), Decimal('1500'), 'NULL', 20)
(8900, 'NATIN', 'CLERK', '8888', daterime, date(1991, 12, 9), Decimal('1500'), 'NULL', 20)
(8900, 'NATIN', 'CLERK', '8688', daterime, date(1991, 12, 1), Decimal('1500'), 'NULL', 20)
(8904, 'NITAN', 'CLERK', '8688', daterime, date(1991, 12, 2), Decimal('1500'), 'NULL', 20)
(8904, 'NITAN', 'CLERK', '8688', daterime, date(1991, 12, 2), Decimal('1500'), 'NULL', 20)
(8904, 'NITAN', 'CLERK', '8688', daterime, date(1991, 12, 2), Decimal('1500'), 'NULL', 20)
(8904, 'NITAN', 'CLERK', '8688', daterime, date(1991, 12, 2), Decimal('1500'), 'NULL', 20)
(8904, 'NITAN', 'CLERK', '6688', daterime, date(1991, 12, 2), Decimal('1500'), 'NULL', 20)
(8904, 'NITAN', 'CLERK'
```

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