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Project Report

Informatics Practices (065)

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Student Name : Srijal Srivastava

Class : XI

Section : A

Roll No. : 41

CERTIFICATE

This is to certify that this work is submitted by Srijal 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

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> Srijal 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

OUTPUT

```
© CNWNOOWS/system2condexe-databasepy

Gaysal, connector, connection, coxt. (MySQL Connection object at 0x0000001FB0F6ABFAB)

1. → Create Table BPPL

2. → Insert data in Table BPPL

3. → Display Table BPPL

3. → Display Table BPPL

5. → Display data in Ascending order

6. → Drop Table BPPL

Enter your choice: 1

Enter your choice: 1

CREATING TABLE EMPL

(CBPNO), b'int', 'YES', '', None, '')

('SBNO', b' varchar(28)', 'YES', '', None, '')

('SBNO', b' varchar(28)', 'YES', '', None, '')

('SRL', b' decinal(16,9)', 'YES', '
```

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| Commonwealth | Comm
```



