

## Practical 1

### Aim

- To connect to MySQL Server
- To create a Database Student
- To create a Table Student
- To add 6 rows
- To fetch and display the records

```
In [6]: import mysql.connector

#Connection to MySQL Server
con = mysql.connector.connect(host="localhost", user="root", passwd="")
mycursor = con.cursor()

#Creating Student Database
mycursor.execute("DROP DATABASE IF EXISTS student")
mycursor.execute("CREATE DATABASE student")
mycursor.execute("USE student")

#Creating Studentinfo Table
mycursor.execute("DROP TABLE IF EXISTS studentinfo")
mycursor.execute("CREATE TABLE studentinfo (name VARCHAR(30), age INT(3), gender
CHAR(1))")

#Inserting Rows in to the table
sql = """INSERT INTO studentinfo(name, age, gender)
VALUES(%s, %s, %s)"""
rows = [('Amit', 18, 'M'),('Sudha',17,'F'),('Suma',19,'F'),\
        ('Paresh',19,'M'),('Ali',17,'M'),('Gargi',17,'F')]
mycursor.executemany(sql, rows)
con.commit()

#To fetch the records and display
sql = "SELECT * FROM studentinfo"
mycursor.execute(sql)
result = mycursor.fetchall()
for row in result:
    name = row[0]
    age = row[1]
    gender = row[2]
    print("Name=%s, Age=%d, Gender=%c" % (name,age,gender))
con.close()
```

```
Name=Amit, Age=18, Gender=M
Name=Sudha, Age=17, Gender=F
Name=Suma, Age=19, Gender=F
Name=Paresh, Age=19, Gender=M
Name=Ali, Age=17, Gender=M
Name=Gargi, Age=17, Gender=F
```

## Practical 2

### Aim

- To Connect to database student
- To create a table result
- To add six rows
- To increase marks in Math by 5 for Sudha
- To fetch and display the records

```
In [9]: import mysql.connector

#Connection to MySQL Server and database student
con = mysql.connector.connect(host="localhost", user="root", passwd="", \
                             database="student")

mycursor = con.cursor()

#Creating result Table
mycursor.execute("DROP TABLE IF EXISTS result")
mycursor.execute("CREATE TABLE result (name VARCHAR(30), \
phys INT(3), chem INT(3), math INT(3))")

#Inserting Rows in to the table
sql = """INSERT INTO result(name, phys, chem, math)
VALUES(%s, %s, %s, %s)"""
rows = [('Amit', 70,76,80), ('Sudha', 80,85,90), ('Suma', 50,70,90), \
        ('Paresh', 55,60,70), ('Ali', 80,70,75), ('Gargi', 80,60,80)]
mycursor.executemany(sql, rows)
con.commit()

# Increasing marks of math by 5 for Sudha
sql = "UPDATE result SET math=math+5 WHERE name='%s'" % ('Sudha')
mycursor.execute(sql)

#To fetch the records and display
sql = "SELECT * FROM result"
mycursor.execute(sql)
result = mycursor.fetchall()
for row in result:
    name = row[0]
    p = row[1]
    c = row[2]
    m = row[3]
    print("Name=%s, Phys=%d, Chem=%d, Math=%d" % (name,p,c,m))
con.close()
```

```
Name=Amit, Phys=70, Chem=76, Math=80
Name=Sudha, Phys=80, Chem=85, Math=95
Name=Suma, Phys=50, Chem=70, Math=90
Name=Paresh, Phys=55, Chem=60, Math=70
Name=Ali, Phys=80, Chem=70, Math=75
Name=Gargi, Phys=80, Chem=60, Math=80
```

## Practical 3

### Aim

- To Connect to database student
- To create a table result
- To add six rows
- To delete the rows with math mark greater or equal to 90
- To fetch and display the records

```
In [10]: import mysql.connector

#Connection to MySQL Server and database student
con = mysql.connector.connect(host="localhost", user="root", passwd="", \
                             database='student')
mycursor = con.cursor()

#Creating result Table
mycursor.execute("DROP TABLE IF EXISTS result")
mycursor.execute("CREATE TABLE result (name VARCHAR(30), \
phys INT(3), chem INT(3), math INT(3))")

#Inserting Rows in to the table
sql = """INSERT INTO result(name, phys, chem, math)
VALUES(%s, %s, %s, %s)"""
rows = [('Amit', 70,76,80), ('Sudha',80,85,90), ('Suma',50,70,90), \
        ('Paresh',55,60,70), ('Ali',80,70,75), ('Gargi',80,60,80)]
mycursor.executemany(sql, rows)
con.commit()

# Deleting the rows with math marks greater or equal to 90
sql = "DELETE FROM result WHERE math>=%d" % (90)
mycursor.execute(sql)

#To fetch the records and display
sql = "SELECT * FROM result"
mycursor.execute(sql)
result = mycursor.fetchall()
for row in result:
    name = row[0]
    p = row[1]
    c = row[2]
    m = row[3]
    print("Name=%s, Phys=%d, Chem=%d, Math=%d" % (name,p,c,m))
con.close()
```

```
Name=Amit, Phys=70, Chem=76, Math=80
Name=Paresh, Phys=55, Chem=60, Math=70
Name=Ali, Phys=80, Chem=70, Math=75
Name=Gargi, Phys=80, Chem=60, Math=80
```

## Practical 4

### Aim

- To connect to database student
- To create a Table staff
- To add 6 rows
- To fetch and display the records of all

```
In [5]: import mysql.connector

#Connection to MySQL Server and database student
con = mysql.connector.connect(host="localhost", user="root", passwd="", \
                             database="student")

mycursor = con.cursor()

#Creating result Table
mycursor.execute("DROP TABLE IF EXISTS staff")
mycursor.execute("CREATE TABLE staff (name VARCHAR(30), \
desg VARCHAR(10), subject VARCHAR(10), salary INT(5))")

# Inserting six rows in staff
sql = """INSERT INTO staff(name, desg, subject, salary)
VALUES(%s, %s, %s, %s)"""
rows = [('Amit', 'PGT', 'CHEM', 8000), ('Sudha', 'HDM', 'BIOL', 8500), \
        ('Suma', 'TGT', 'MATH', 9000), ('Paresh', 'PGT', 'HIND', 7000), \
        ('Ali', 'PRT', 'COMM', 7500), ('Gargi', 'PGT', 'COMP', 9000)]
mycursor.executemany(sql, rows)
con.commit()

#To fetch the records and display
sql = "SELECT * FROM staff WHERE salary>'%d'" % (8000)
mycursor.execute(sql)
result = mycursor.fetchall()
for row in result:
    name = row[0]
    des = row[1]
    sub = row[2]
    sal = row[3]
    print("Name=%s, Desg=%s, Subject=%s, Salary=%d" % (name, des, sub, sal))
con.close()
```

```
Name=Sudha, Desg=HDM, Subject=BIOL, Salary=8500
Name=Suma, Desg=TGT, Subject=MATH, Salary=9000
Name=Gargi, Desg=PGT, Subject=COMP, Salary=9000
```

In [ ]: