CURD:

```
# Python implementation to create a Database in MySQL

import mysql.connector


# connecting to the mysql server

db = mysql.connector.connect(

        host="localhost",

        user="root",

        passwd="password"

)


# cursor object c

c = db.cursor()


# executing the create database statement

c.execute("CREATE DATABASE employee_db")


# fetching all the databases

c.execute("SHOW DATABASES")


# printing all the databases

for i in c:

        print(i)

c = db.cursor()
```

```
# finally closing the database connection
db.close()
```

Create table:

```
# Python implementation to create a table in MySQL
import mysql.connector

# connecting to the mysql server

db = mysql.connector.connect(
        host="localhost",
        user="root",
        passwd="password",
        database="employee_db"
)

# cursor object c
c = db.cursor()

# create statement for tblemployee
employeetbl_create = """CREATE TABLE `employee_db`.`tblemployee` (
`empid` INT NOT NULL AUTO_INCREMENT,
`empname` VARCHAR(45) NULL,
`department` VARCHAR(45) NULL,
`salary` INT NULL,
```

```
PRIMARY KEY (`empid`))"""

c.execute(employeetbl_create)

c = db.cursor()

# fetch tblemployee details in the database
c.execute("desc tblemployee")

# print the table details
for i in c:
        print(i)

# finally closing the database connection
db.close()
```

insert table:

```
# Python implementation to insert data into a table in MySQL
import mysql.connector

# connecting to the mysql server

db = mysql.connector.connect(
        host="localhost",
```

```
        user="root",
        passwd="password",
        database="employee_db"
)

# cursor object c
c = db.cursor()

# insert statement for tblemployee
# this statement will enable us to insert multiple rows at once.
employeetbl_insert = """INSERT INTO tblemployee (
empname,
department,
salary)
VALUES (%s, %s, %s)"""

# we save all the row data to be inserted in a data variable
data = [("Vani", "HR", "100000"),
                ("Krish", "Accounts", "60000"),
                ("Aishwarya", "Sales", "25000"),
                ("Govind", "Marketing", "40000")]

# execute the insert commands for all rows and commit to the database
c.executemany(employeetbl_insert, data)
db.commit()
```

```
# finally closing the database connection
db.close()
```

Read Table:

```
# Python implementation to fetch data from a table in MySQL
import mysql.connector


# connecting to the mysql server


db = mysql.connector.connect(
        host="localhost",
        user="root",
        passwd="password",
        database="employee_db"
)


# cursor object c
c = db.cursor()


# select statement for tblemployee which returns all columns
employeetbl_select = """SELECT * FROM tblemployee"""


# execute the select query to fetch all rows
c.execute(employeetbl_select)
```

```
# fetch all the data returned by the database
employee_data = c.fetchall()

# print all the data returned by the database
for e in employee_data:
        print(e)

# finally closing the database connection
db.close()
```

Update:

```
# Python implementation to update data of a table in MySQL
import mysql.connector

# connecting to the mysql server

db = mysql.connector.connect(
        host="localhost",
        user="root",
        passwd="password",
        database="employee_db"
)

# cursor object c
c = db.cursor()
```

```
# update statement for tblemployee
# which modifies the salary of Vani
employeetbl_update = "UPDATE tblemployee\
SET salary = 115000 WHERE empid = 1"

# execute the update query to modify
# the salary of employee with
# employee id = 1 and commit to the database
c.execute(employeetbl_update)
db.commit()

# finally closing the database connection
db.close()

deleting:
import mysql.connector

# connecting to the mysql server

db = mysql.connector.connect(
        host="localhost",
        user="root",
        passwd="password",
        database="employee_db"
```

```
)


# cursor object c

c = db.cursor()


# delete statement for tblemployee

# which deletes employee Aishwarya having empid 3

employeetbl_delete = "DELETE FROM tblemployee WHERE empid=3"


# execute the delete statement and commit to the database

c.execute(employeetbl_delete)

db.commit()


# finally closing the database connection

db.close()
```