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working with mysql database server
  if we want to working with mysql database server, to required two
things, they are
        Mysql server
        mysql-connector-python, mysqlclient
ex:
C:\Python310\Scripts>pip install mysql-connector-python
ex1:
wap to create a database/schema?
        create database databasename;
import mysql.connector
conn obj=mysql.connector.connect(user="root",password="root",
                            host="localhost",port=3306)
print("Connection Establish")
cur obj=conn obj.cursor()
cur_obj.execute("create database employe")
print("Database created Successfully")
cur_obj.close()
conn obj.close()
print("Connection Closeing")
output:
_ _ _ _ _
Connection Establish
Database created Successfully
Connection Closeing
ex2:
import mysql.connector
conn_obj=mysql.connector.connect(user="root", password="root",
                            host="localhost", port=3306)
print("Connection Establish")
cur_obj=conn_obj.cursor()
cur_obj.execute("use employe")
print("connect the employe database")
cur obj.execute("create table emp(eid integer primary key,\
 ename varchar(20),sal double(6,2),dno integer)")
print("Table Created Successfully")
cur_obj.close()
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conn_obj.close()
print("Connection Closeing")
output:
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Connection Establish
connect the employe database
Table Created Successfully
Connection Closeing
ex3:
wap to insert the data into the database?
import mysql.connector
conn obj=mysql.connector.connect(user="root",password="root",
                host="localhost",port=3306,database="employe")
print("Connection Establish")
cur_obj=conn_obj.cursor()
cur obj.execute("insert into emp values(101, 'siva', 3000, 10)")
cur obj.execute("insert into emp values(102, 'rama', 3100, 20)")
cur_obj.execute("insert into emp values(103, 'sachin', 2900, 30)")
cur_obj.execute("insert into emp values(104, 'dhoni', 3000, 10)")
cur_obj.execute("insert into emp values(105, 'krishna', 3100, 30)")
print("Records are Inserted Successfully")
cur_obj.execute("commit")
print("commit completed")
cur_obj.close()
conn obj.close()
print("Connection Closeing")
output:
_ _ _ _ _ _
Connection Establish
Records are Inserted Successfully
commit completed
Connection Closeing
ex4:
wap to retreive the data from the database?
import mysql.connector
conn_obj=mysql.connector.connect(user="root",password="root",
                host="localhost",port=3306,database="employe")
print("Connection Establish")
cur_obj=conn_obj.cursor()
cur_obj.execute("select * from emp")
for rec in cur obj:
    print(rec)
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cur_obj.close()
conn_obj.close()
print("Connection Closeing")
output:
_____
Connection Establish
(101, 'siva', 3000.0, 10)
(102, 'rama', 3100.0, 20)
(103, 'sachin', 2900.0, 30)
(104, 'dhoni', 3000.0, 10)
(105, 'krishna', 3100.0, 30)
Connection Closeing
ex5:
wap to print employe data which employe working under department number 10?
import mysql.connector
conn obj=mysql.connector.connect(user="root",password="root",
                host="localhost",port=3306,database="employe")
print("Connection Establish")
cur_obj=conn_obj.cursor()
cur_obj.execute("select * from emp where dno=10")
for rec in cur_obj:
    print(rec)
cur_obj.close()
conn_obj.close()
print("Connection Closeing")
output:
Connection Establish
(101, 'siva', 3000.0, 10)
(104, 'dhoni', 3000.0, 10)
Connection Closeing
ex6:
wap to print employe data in ascending order based on salary?
import mysql.connector
conn obj=mysql.connector.connect(user="root",password="root",
                host="localhost",port=3306,database="employe")
print("Connection Establish")
cur obj=conn obj.cursor()
cur_obj.execute("select * from emp order by sal")
for rec in cur_obj:
    print(rec)
cur_obj.close()
```

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conn_obj.close()
print("Connection Closeing")
output:
_ _ _ _ _ _
Connection Establish
(103, 'sachin', 2900.0, 30)
(101, 'siva', 3000.0, 10)
(104, 'dhoni', 3000.0, 10)
(102, 'rama', 3100.0, 20)
(105, 'krishna', 3100.0, 30)
Connection Closeing
ex7:
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wap to update the data?
import mysql.connector
conn_obj=mysql.connector.connect(user="root",password="root",
                 host="localhost",port=3306,database="employe")
print("Connection Establish")
cur obj=conn obj.cursor()
print("before update")
cur_obj.execute("select * from emp")
for rec in cur_obj:
    print(rec)
cur_obj.execute("update emp set sal=4000 where ename like 's%'")
print("updated successfully")
print("after update")
cur_obj.execute("select * from emp")
for rec in cur obj:
    print(rec)
try:
    cur_obj.execute("rollback")
    print("rollback completed")
except:
    pass
else:
    print("after rollback")
    cur obj.execute("select * from emp")
    for rec in cur_obj:
        print(rec)
finally:
    cur_obj.close()
    conn obj.close()
    print("Connection Closeing")
output:
Connection Establish
```

```
before update
(101, 'siva', 3500.0, 10)
(102, 'rama', 3100.0, 20)
(103, 'sachin', 3500.0, 30)
(104, 'dhoni', 3000.0, 10)
(105, 'krishna', 3100.0, 30)
updated successfully
after update
(101, 'siva', 4000.0, 10)
(102, 'rama', 3100.0, 20)
(103, 'sachin', 4000.0, 30)
(104, 'dhoni', 3000.0, 10)
(105, 'krishna', 3100.0, 30)
rollback completed
after rollback
(101, 'siva', 3500.0, 10)
(102, 'rama', 3100.0, 20)
(103, 'sachin', 3500.0, 30)
(104, 'dhoni', 3000.0, 10)
(105, 'krishna', 3100.0, 30)
Connection Closeing
ex8:
wap to delete the data?
import mysql.connector
conn_obj=mysql.connector.connect(user="root",password="root",
                host="localhost",port=3306,database="employe")
print("Connection Establish")
cur obj=conn obj.cursor()
print("before delte")
cur_obj.execute("select * from emp")
for rec in cur_obj:
    print(rec)
cur_obj.execute("delete from emp where ename like 's%'")
print("deleted successfully")
print("after delete")
cur_obj.execute("select * from emp")
for rec in cur obj:
    print(rec)
try:
    cur obj.execute("commit")
    print("commit completed")
    cur_obj.execute("rollback")
    print("rollback completed")
except:
    print("once commit the transaction we can't rollback the data")
    print("after rollback")
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cur_obj.execute("select * from emp")
    for rec in cur_obj:
        print(rec)
finally:
    cur obj.close()
    conn_obj.close()
    print("Connection Closeing")
output:
----
Connection Establish
before delte
(101, 'siva', 3500.0, 10)
(102, 'rama', 3100.0, 20)
(103, 'sachin', 3500.0, 30)
(104, 'dhoni', 3000.0, 10)
(105, 'krishna', 3100.0, 30)
deleted successfully
after delete
(102, 'rama', 3100.0, 20)
(104, 'dhoni', 3000.0, 10)
(105, 'krishna', 3100.0, 30)
commit completed
rollback completed
after rollback
(102, 'rama', 3100.0, 20)
(104, 'dhoni', 3000.0, 10)
(105, 'krishna', 3100.0, 30)
Connection Closeing
```