ORDER MANAGEMENT SYSTEM

Here in the order management system firstly,I have created a database in mysql with the schema name”ordermangement_system” and then created a table and named:”products” and added(inserted) few products(values) which should be in the inventory.later on I have connected database into the python and that code is shown below source code.later on using sql in python I have created a orderline (table which have product name,product_id and status)added orders in the ordeline and verified whether they are present in the inventory(products table) or not.And followed the problem statement where commands of multiple types created and executed as per the requirement

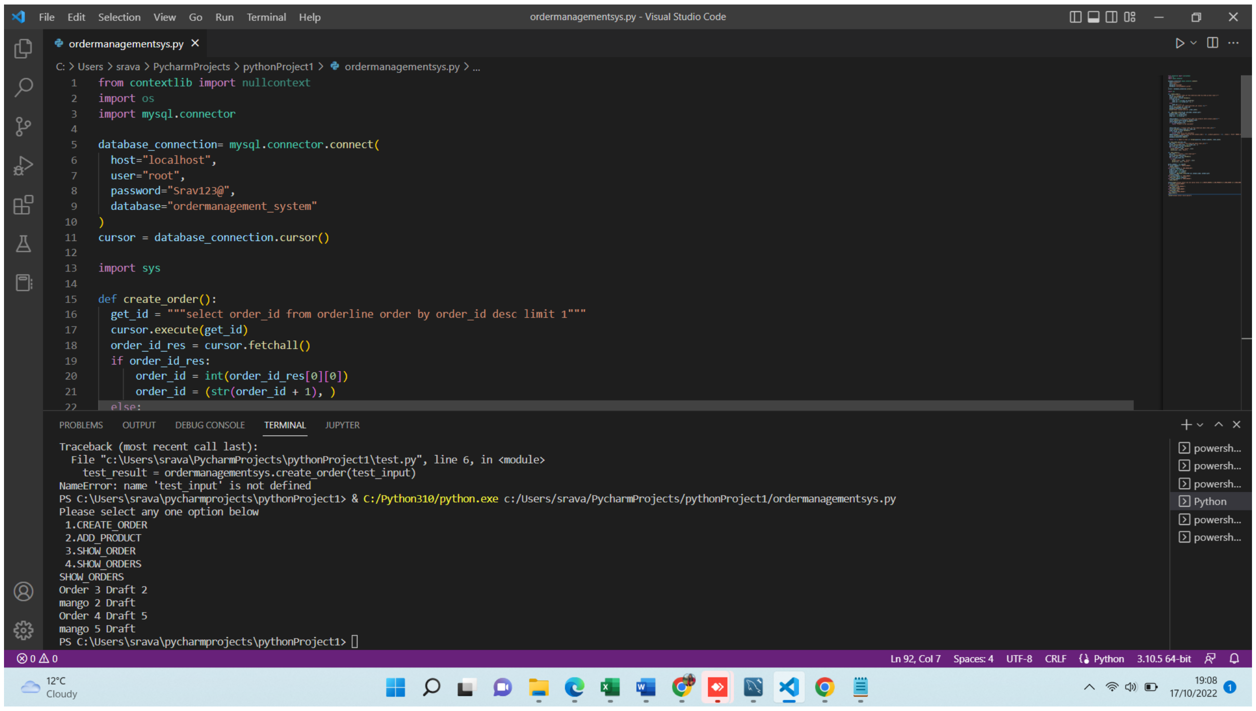
ORDERMANAGEMENT SYSTEM source code:

```
from contextlib import nullcontext
#database connection
import os
import mysql.connector
database_connection= mysql.connector.connect(
  host="localhost",
  user="root",
  password="Srav123@",
  database="ordermanagement_system"
)
cursor = database_connection.cursor()

import sys

def create_order():
  get_id = """select order_id from orderline order by order_id desc limit 1"""
  cursor.execute(get_id)
  order_id_res = cursor.fetchall()
  if order_id_res:
      order_id = int(order_id_res[0][0])
      order_id = (str(order_id + 1), )
  else:
      order_id = ('1', )
  get_id = """insert into orderline(order_id) values (%s)"""
  cursor.execute(get_id, order_id)
  database_connection.commit()
  print("Order created with id ",order_id[0])

def  add_order_line(ord_id, prd_name, product_qnt):
  product_name = (prd_name, )
  quantity = str(product_qnt)
  order_id = (str(ord_id), )

  check_product = """select product_name from products where product_name=%s"""
  cursor.execute(check_product, product_name)
  check_product_res = cursor.fetchall()
  if not check_product_res:
      return "Product is not available"


  check_order_id = """select order_id from orderline where order_id=%s"""
  cursor.execute(check_order_id, order_id)
  order_id_res = cursor.fetchall()
  if not order_id_res:
      return "Order id is not available"
  update_product = "UPDATE orderline SET product_name = '{}', product_quantity = '{}', status =
'Draft' WHERE order_id = '{}'".format(product_name[0],quantity,order_id[0])
  cursor.execute(update_product)
  database_connection.commit()

  return "{} {} added to order {}".format(quantity, product_name[0], order_id[0])

def show_order_id(order_id):
  get_order = """select * from orderline where order_id=%s"""
  cursor.execute(get_order, (str(order_id), ))
  get_order_res = cursor.fetchall()
  for x in get_order_res:
    print("Order", x[0], "Draft", x[1])
    print(x[2], x[1], "Draft")

def show_orders():
  get_order = """select * from orderline"""
  cursor.execute(get_order)
  get_order_res = cursor.fetchall()
  for x in get_order_res:
    if x[2]:
      print("Order", x[0], "Draft", x[1])
      print(x[2], x[1], "Draft")

given_command = sys.argv[0]
if given_command == "CREATE_ORDER":
  create_order()
elif given_command == "ADD_ORDERLINE":
  order_id = sys.argv[2]
  product_name = sys.argv[3]
  product_qnt = sys.argv[4]
  response = add_order_line(order_id, product_name, product_qnt)
  print(response)
elif given_command == "SHOW_ORDER":
  show_order_id(sys.argv[2])
elif given_command == "SHOW_ORDERS":
  show_orders()

select=input("Please select any one option below \n 1.CREATE_ORDER\n 2.ADD_PRODUCT\n
3.SHOW_ORDER \n 4.SHOW_ORDERS\n")
if select=="CREATE_ORDER":
  create_order()
elif select=="ADD_PRODUCT":
  add_order_line()
elif select=="SHOW_ORDER":
  show_order_id(order_id)
elif select=="SHOW_ORDERS":
 show_orders()
else :
 print("please select valid option")
```

SQL QUERIES :
—---------->
First I have created a database and tables then inserted values into it(this is inventory)

```
CREATE DATABASE ordermanagement_system
USE ordermanagement_system;
CREATE TABLE products (
    product_name VARCHAR(20),
    product_quatity INT
);
INSERT INTO products(product_name,product_quatity )
VALUES
('apple','24'),
('mango','20'),
('kiwi','30'),
('avacado','28');
```

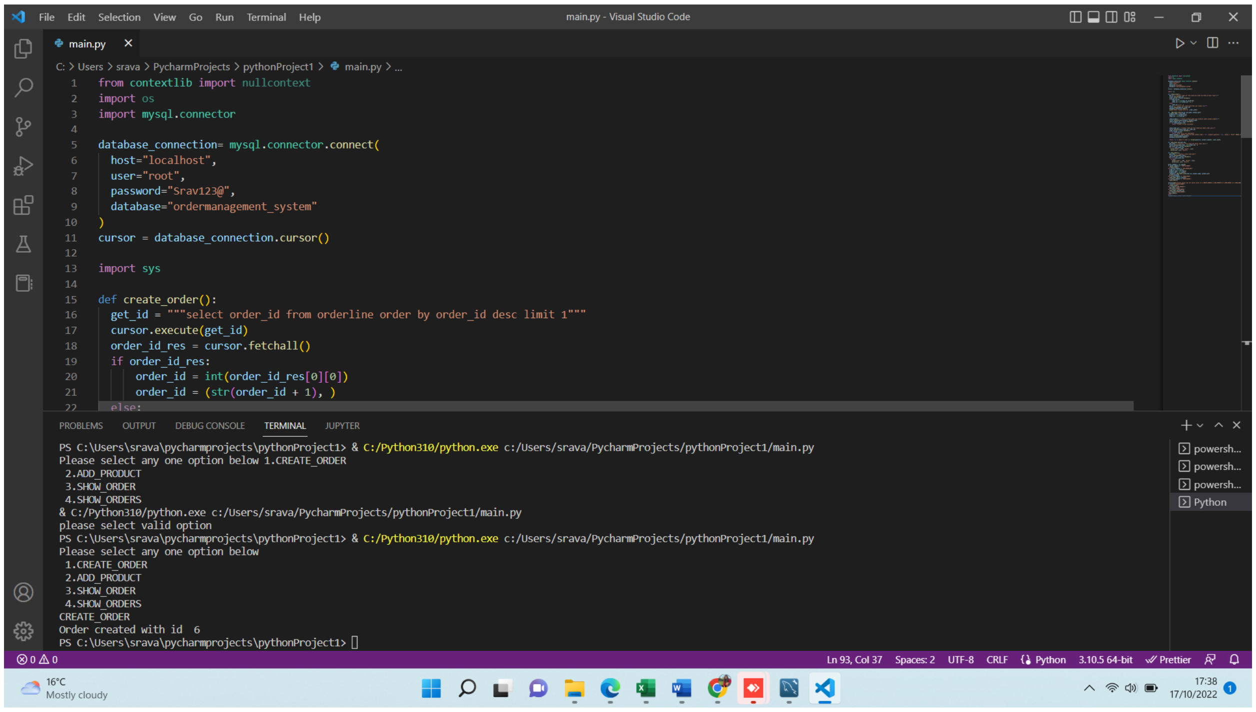
SCREENSHOTS:


ordermanagementsys.py - Visual Studio Code

C: > Users > srava > PycharmProjects > pythonProject1 > ordermanagementsys.py > ...

```python
from contextlib import nullcontext
import os
import mysql.connector

database_connection= mysql.connector.connect(
  host="localhost",
  user="root",
  password="Srav123@",
  database="ordermanagement_system"
)
cursor = database_connection.cursor()

import sys

def create_order():
  get_id = """select order_id from orderline order by order_id desc limit 1"""
  cursor.execute(get_id)
  order_id_res = cursor.fetchall()
  if order_id_res:
      order_id = int(order_id_res[0][0])
      order_id = (str(order_id + 1), )
  else:
```

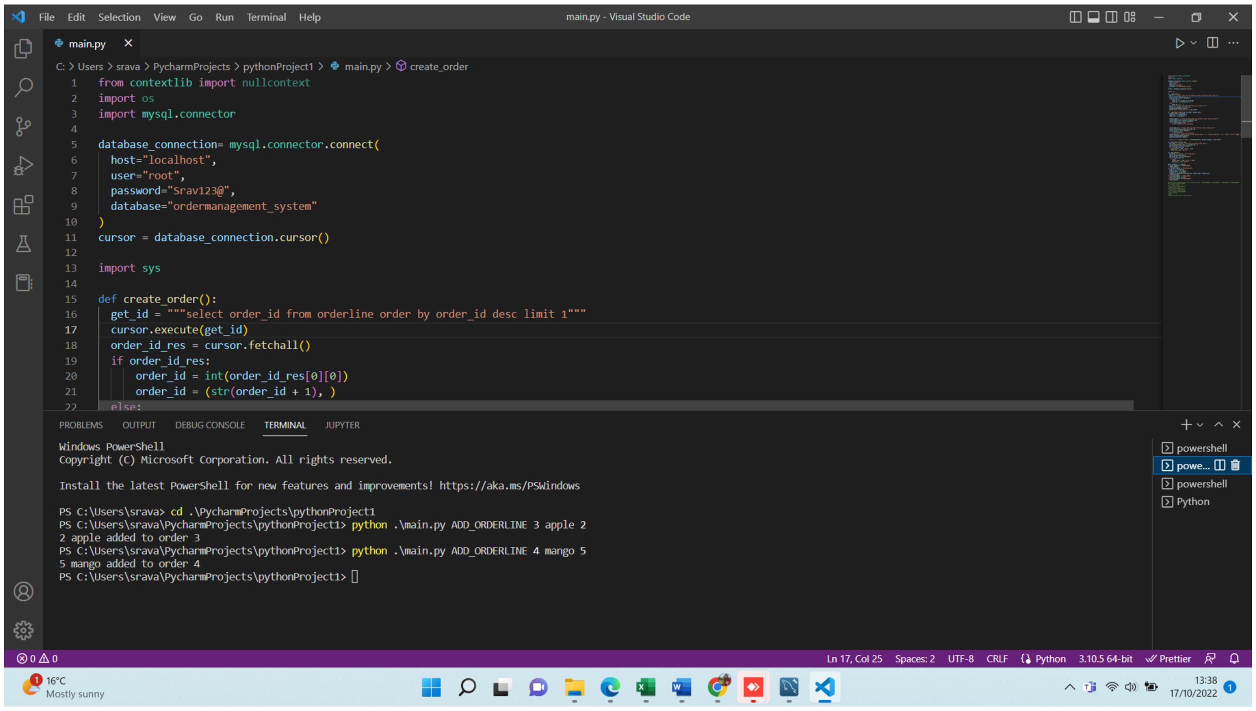
```
Traceback (most recent call last):
  File "c:\Users\srava\PycharmProjects\pythonProject1\test.py", line 6, in <module>
    test_result = ordermanagementsys.create_order(test_input)
NameError: name 'test_input' is not defined
PS C:\Users\srava\pycharmprojects\pythonProject1> & C:/Python310/python.exe c:/Users/srava/PycharmProjects/pythonProject1/ordermanagementsys.py
Please select any one option below
 1.CREATE_ORDER
 2.ADD_PRODUCT
 3.SHOW_ORDER
 4.SHOW_ORDERS
SHOW_ORDERS
Order 3 Draft 2
mango 2 Draft
Order 4 Draft 5
mango 5 Draft
PS C:\Users\srava\pycharmprojects\pythonProject1> 
```


main.py - Visual Studio Code

C: > Users > srava > PycharmProjects > pythonProject1 > main.py > ...

```python
from contextlib import nullcontext
import os
import mysql.connector

database_connection= mysql.connector.connect(
  host="localhost",
  user="root",
  password="Srav123@",
  database="ordermanagement_system"
)
cursor = database_connection.cursor()

import sys

def create_order():
  get_id = """select order_id from orderline order by order_id desc limit 1"""
  cursor.execute(get_id)
  order_id_res = cursor.fetchall()
  if order_id_res:
      order_id = int(order_id_res[0][0])
      order_id = (str(order_id + 1), )
  else:
```

```
PS C:\Users\srava\pycharmprojects\pythonProject1> & C:/Python310/python.exe c:/Users/srava/PycharmProjects/pythonProject1/main.py
Please select any one option below 1.CREATE_ORDER
 2.ADD_PRODUCT
 3.SHOW_ORDER
 4.SHOW_ORDERS
& C:/Python310/python.exe c:/Users/srava/PycharmProjects/pythonProject1/main.py
please select valid option
PS C:\Users\srava\pycharmprojects\pythonProject1> & C:/Python310/python.exe c:/Users/srava/PycharmProjects/pythonProject1/main.py
Please select any one option below
 1.CREATE_ORDER
 2.ADD_PRODUCT
 3.SHOW_ORDER
 4.SHOW_ORDERS
CREATE_ORDER
Order created with id  6
PS C:\Users\srava\pycharmprojects\pythonProject1> 
```



```python
from contextlib import nullcontext
import os
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  if order_id_res:
      order_id = int(order_id_res[0][0])
      order_id = (str(order_id + 1), )
  else:
```

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\srava> cd .\PycharmProjects\pythonProject1
PS C:\Users\srava\PycharmProjects\pythonProject1> python .\main.py ADD_ORDERLINE 3 apple 2
2 apple added to order 3
PS C:\Users\srava\PycharmProjects\pythonProject1> python .\main.py ADD_ORDERLINE 4 mango 5
5 mango added to order 4
PS C:\Users\srava\PycharmProjects\pythonProject1>
```
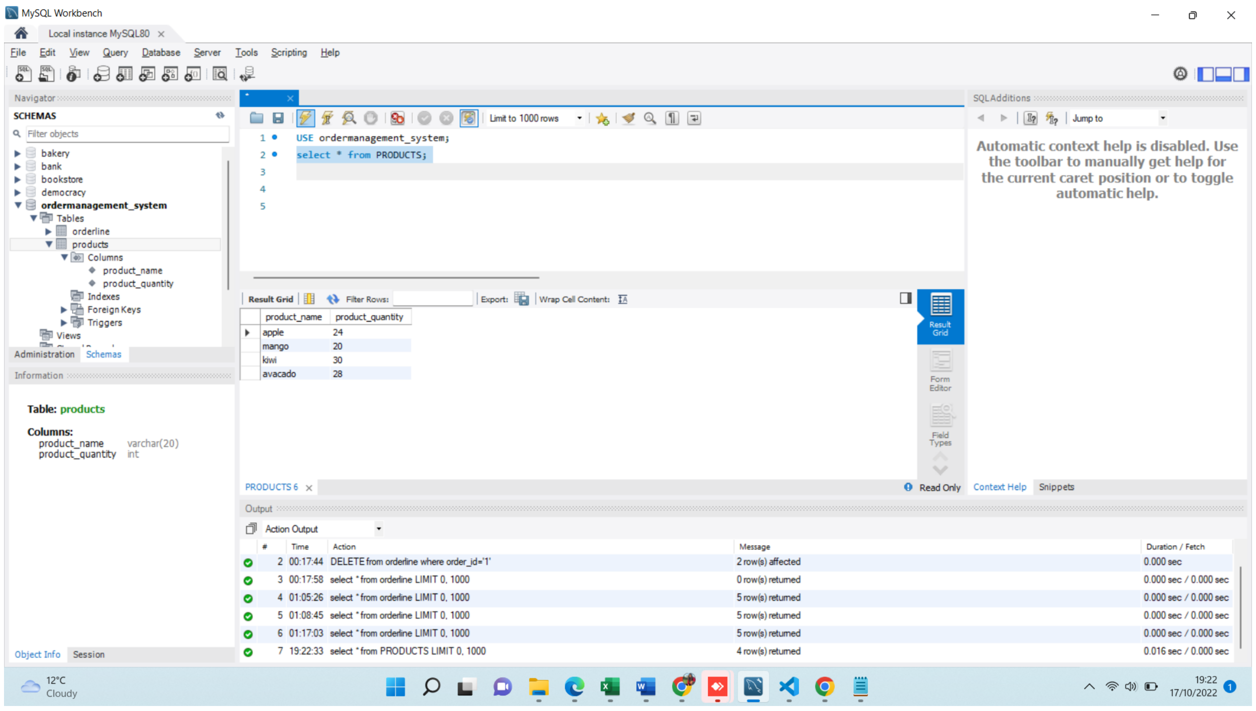

DATABASE DETAILS:



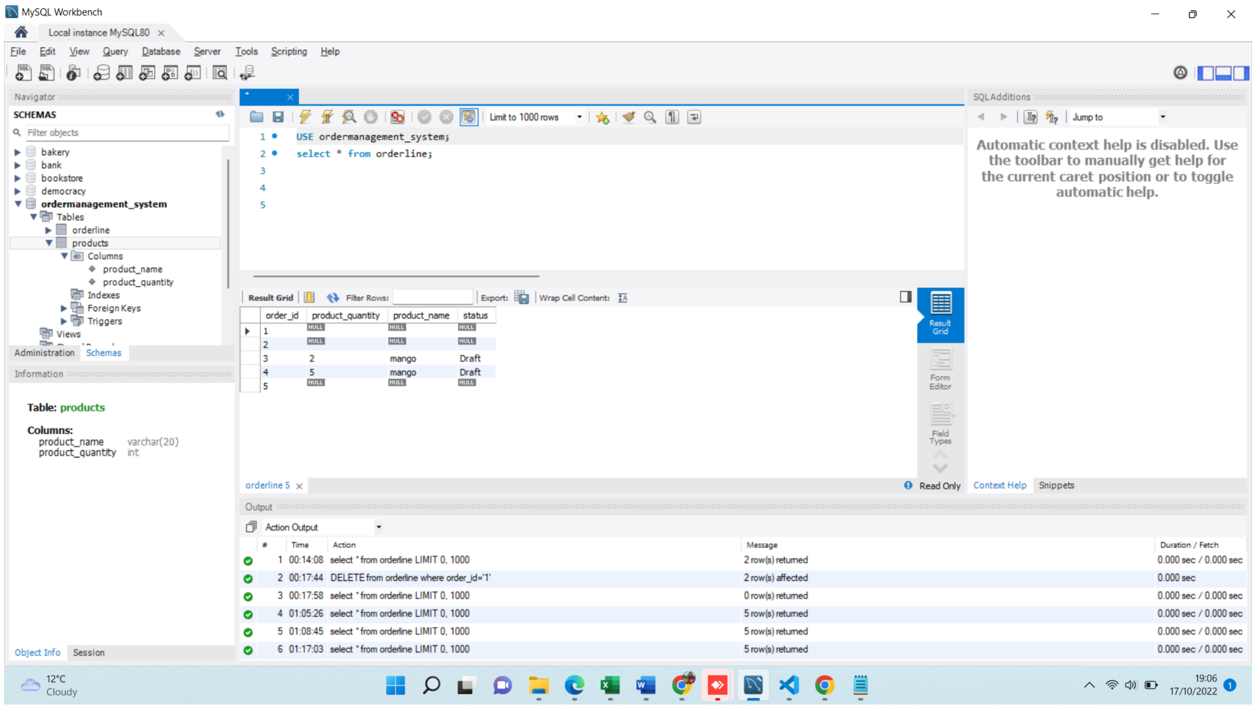
```sql
USE ordermanagement_system;
select * from PRODUCTS;
```

product_name	product_quantity
apple	24
mango	20
kiwi	30
avacado	28

Table: products

Columns:
product_name varchar(20)
product_quantity int

#	Time	Action	Message	Duration / Fetch
2	00:17:44	DELETE from orderline where order_id='1'	2 row(s) affected	0.000 sec
3	00:17:58	select * from orderline LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
4	01:05:26	select * from orderline LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
5	01:08:45	select * from orderline LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	01:17:03	select * from orderline LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
7	19:22:33	select * from PRODUCTS LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec



```sql
USE ordermanagement_system;
select * from orderline;
```

order_id	product_quantity	product_name	status
1	NULL	NULL	NULL
2	NULL	NULL	NULL
3	2	mango	Draft
4	5	mango	Draft
5	NULL	NULL	NULL

Table: products

Columns:
product_name varchar(20)
product_quantity int

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
#  Time      Action                                       Message             Duration / Fetch
1  00:14:08  select * from orderline LIMIT 0, 1000        2 row(s) returned   0.000 sec / 0.000 sec
2  00:17:44  DELETE from orderline where order_id='1'     2 row(s) affected   0.000 sec
3  00:17:58  select * from orderline LIMIT 0, 1000        0 row(s) returned   0.000 sec / 0.000 sec
4  01:05:26  select * from orderline LIMIT 0, 1000        5 row(s) returned   0.000 sec / 0.000 sec
5  01:08:45  select * from orderline LIMIT 0, 1000        5 row(s) returned   0.000 sec / 0.000 sec
6  01:17:03  select * from orderline LIMIT 0, 1000        5 row(s) returned   0.000 sec / 0.000 sec
```