# ONLINE RESTAURANT MANAGEMENT SYSTEM

DBMS PROJECT

TEAM MEMBERS:
121910313002 SIRI CHANDANA
121910313005 SHIFA MEHREEN
121910313044 JASWANTH SAI
121910313049 ADITHYA
121910313055 SATYANARAYANA

#### INTRODUCTION

#### Definition:

Online food Management is a website to order food online. The system provides access to the customer to order online, reserve tables, and cancel tables from the website.

#### Description:

The Online Ordering System can be defined as a simple and convenient way for customers to purchase food online, without having to go to the restaurant. This system is enabled by the internet – it is the internet that connects the restaurant or the food company on one hand, and the customer on the other hand.

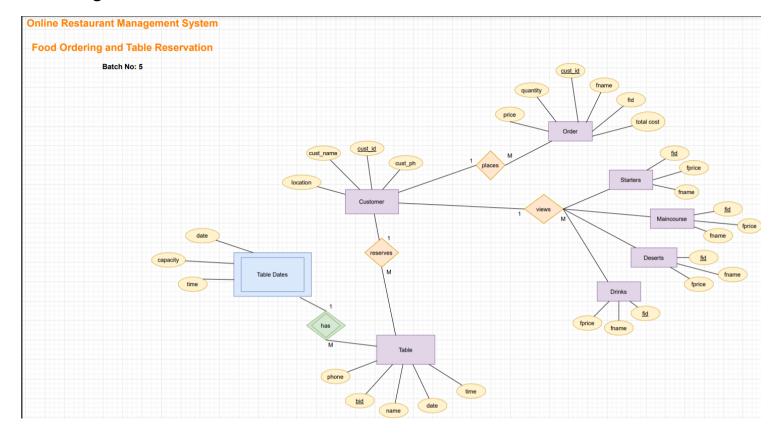
#### Abstract:

An Online Food Ordering System is proposed here which simplifies the food ordering process. The proposed system shows a user interface and updates the menu with all available options so that it eases the customer work. Customers can choose more than one item to make an order and can view order details. The order confirmation is sent to the customer. The order is placed in the queue and updated in the database and returned in real time. This system assists the staff to go through the orders in real time and process it efficiently with minimal errors.

#### Our Application Use:

It mainly allows the users to be able to view our food menu, reserve tables, basing on their convenient time and dates, cancel their reservation by giving their generated booking id, and order for food, by selecting any items they want from the following categories: starters, main course, desserts and drinks, at the end of the order, they will be able to view their bill.

# ER diagram:



# Link to ER diagram:

https://drive.google.com/file/d/1mCqxKHAOFgiihhEJolsc4RwFQxNk55Ay/view?usp=sharing

# Software requirements:

In order to run our file we require:

- Python
- Mysql-connector-python
- Mysql server

# Online food Database Conceptual schema:

#### **CUSTOMER:**

1. Cust\_id: int - primary key

2. cust name: varchar(30)

cust\_ph: varchar(10)

4. location: varchar(30)

#### **ORDERS:**

cust\_id: varchar(10)

2. fid: varchar(10)

3. fname: varchar(30)

4. price: int

5. quantity: int

6. cost: int

#### TABLE RESERVATION:

1. date: varchar(10)

2. time: varchar(10)

3. name: varchar(30)

4. phone: varchar(10)

5. b\_id: int - PRIMARY KEY

#### TABLE DATES:

1. date: varchar(10)

2. time: varchar(10)

3. capacity: int

#### STARTERS, MAINCOURSE, DESSERTS, DRINKS:

1. Fid: int - primary key

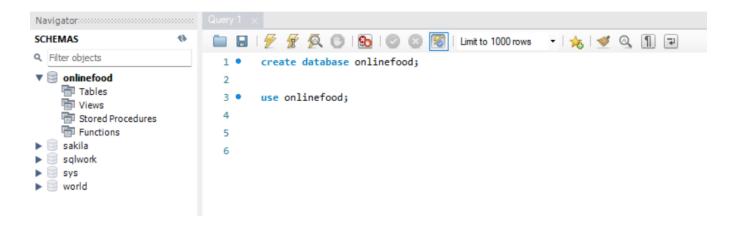
2. Fname - varchar(30)

3. Fprice - int

------ START OF PROJECT-----

We used MySQL Workbench to run the backend commands as an admin. Our customer or the online user, will interact with our Python-written program.

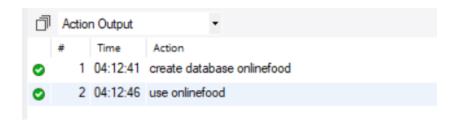
# MySQL:



We first created a database and named it "onlinefood". Using the command" create database database\_name".

We then make our "onlinefood" database, as the default/current database for our further statements.

Using the "use" keyword we use our "onlinefood" database.



#### **FOOD MENU:**

We now create tables for our food menu. Since we can't create tables with the same name every time a user interacts with the program, we do the creation of tables and insertion of items, in the backend (as an admin), using MySQL Workbench.

Our restaurant menu has the following categories:

- 1. Starters
- 2. Main Course
- 3. Desserts
- 4. Drinks

Each of these categories has its own table, containing the following attributes and datatypes:

1. Fid: int (primary key)

2. Fname: varchar(30)

3. Fprice: int

Fid  $\rightarrow$  Food Id. It is a primary key, hence a unique and not null attribute.

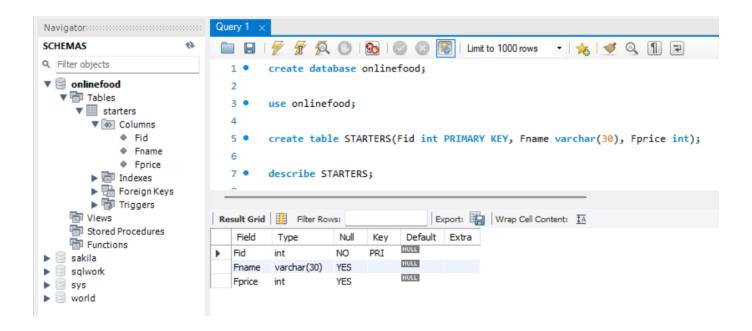
Our user has to enter the particular food id for ordering that particular food item.

Fname  $\rightarrow$  Food Name. It is to display the particular food item name.

Fprice  $\rightarrow$  Food Price. It is to display the particular food item's price.

We then insert values for each column, including id, name, and price, and keep adding rows, for different food items, containing different values.

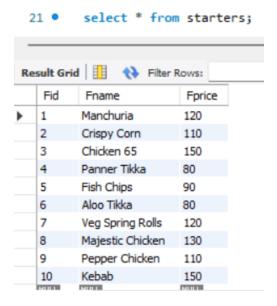
#### STARTERS Table:



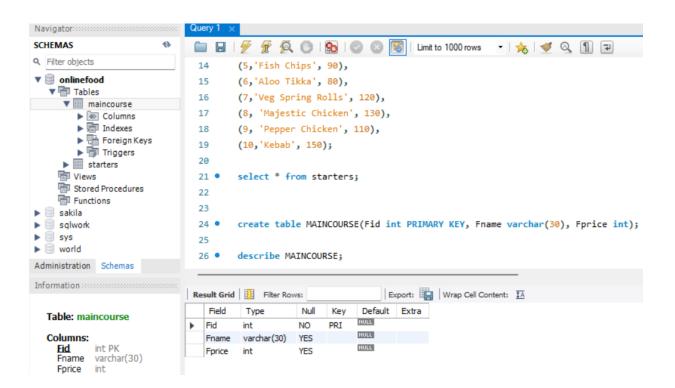
Then we inserted some 10 items(rows) into the starters table. As follows:

```
insert into STARTERS values
 9 •
10
        (1, 'Manchuria', 120),
        (2, 'Crispy Corn', 110),
11
12
        (3, 'Chicken 65', 150),
        (4, 'Panner Tikka',80),
13
        (5, 'Fish Chips', 90),
14
        (6, 'Aloo Tikka', 80),
15
        (7,'Veg Spring Rolls', 120),
16
        (8, 'Majestic Chicken', 130),
17
        (9, 'Pepper Chicken', 110),
18
        (10, 'Kebab', 150);
19
20
```

We used the select command to show the starters table.



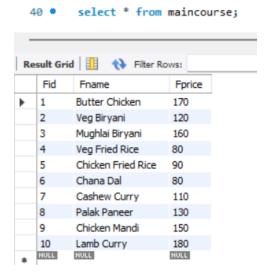
#### **MAINCOURSE Table:**



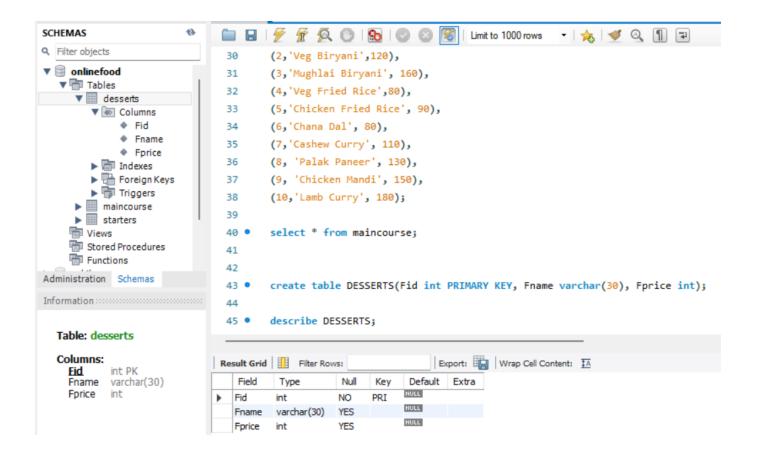
Then we inserted some 10 items(rows) into the main course table. As follows:

```
insert into MAINCOURSE values
       (1, 'Butter Chicken', 170),
       (2,'Veg Biryani',120),
30
       (3,'Mughlai Biryani', 160),
31
       (4, 'Veg Fried Rice', 80),
32
       (5, 'Chicken Fried Rice', 90),
33
       (6, 'Chana Dal', 80),
34
35
       (7, 'Cashew Curry', 110),
36
       (8, 'Palak Paneer', 130),
       (9, 'Chicken Mandi', 150),
37
       (10, 'Lamb Curry', 180);
38
```

# Showing the maincourse table:



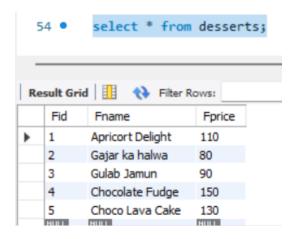
#### **DESSERTS Table:**



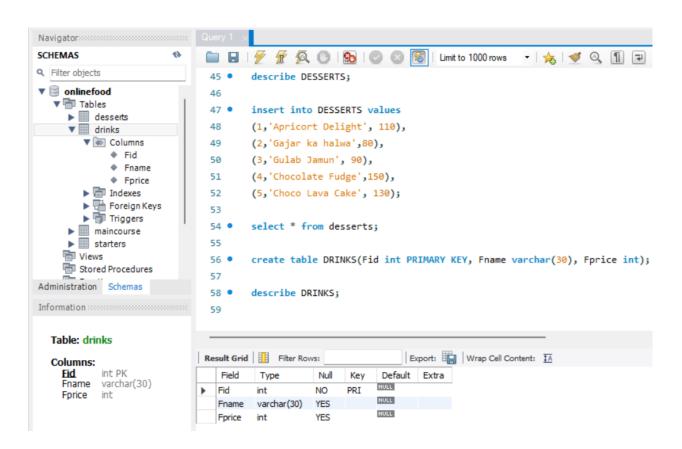
Then we inserted some 5 items(rows) into the desserts table. As follows:

```
insert into DESSERTS values
(1,'Apricort Delight', 110),
(2,'Gajar ka halwa',80),
(3,'Gulab Jamun', 90),
(4,'Chocolate Fudge',150),
(5,'Choco Lava Cake', 130);
```

# Showing the desserts table:



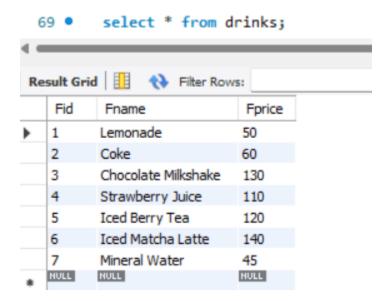
#### **DRINKS Table:**



Then we inserted some 7 items(rows) into the drinks table. As follows:

```
60 • insert into DRINKS values
61    (1,'Lemonade', 50),
62    (2,'Coke', 60),
63    (3,'Chocolate Milkshake', 130),
64    (4,'Strawberry Juice',110),
65    (5,'Iced Berry Tea', 120),
66    (6, 'Iced Matcha Latte', 140),
67    (7, 'Mineral Water', 45);
```

Showing the drinks table:



#### **PYTHON:**

We install MySQL Python Connector, to access the MySQL database.

Then we import the connector in our code, using the statement:

import mysql.connector #importing connector package

We also import random to generate random id numbers for our customers (cust-ids) and our booking ids( b id) for table reservations, using:

import random #importing random package

To establish a connection we use the connect() function from the mysql.connector package and give arguments like, host, user, and password

```
host → local host (default)
user → root (default user)
password → Password123# (it's my local MySQL database password)
```

Statement used:

db =mysql.connector.connect(host="localhost",user="root",password="Password123#") #to establish connection

 $db \rightarrow it$  is a variable used here as an object to help with the connection

The cursor() method creates a cursor object that is used to execute a SQL query by using the execute() method.

We have created an object, with mycursor as a variable that acts as our cursor in the database. mycursor=db.cursor()

To execute the statements, we use the execute() method. Here we use,

mycursor.execute()

```
import mysql.connector
import random

db =mysql.connector.connect(host="localhost",user="root",password="Password123#", database = "OnlineFood")

mycursor=db.cursor()
```

#### PROGRAM:

about()
main()

```
about()
main()
```

# about() method:

We first call our about() method.

In about(), we welcome the users, to use our program and talk a little about the program applications.

We named our restaurant, "Foodies Restaurant".

#### CODE:

```
def about():
    print("Welcome to Our Foodies Restaurant".center(90,"*"))
```

print("Foodies Restaurant has varied food options to choose from. Our program provides an easy interface to interact with providing a website where customers can view a restaurant's menu, place an order and book a table.".center(90, "\*"))

```
def about():
    print("Welcome to Our Foodies Restaurant".center(90,"*"))

print("Foodies Restaurant has varied food options to choose from. Our program provides an easy interface to interact with providing a website where customers can view a restaurants menu, place an order and book a table.".center(90, "*"))
```

## Output:

(pre-defined function in python:

```
print() \rightarrow is to print the given string in the quotations.
center() \rightarrow is to format the code and align it to the center)
```

# main() method:

After about() we call our main() method, where we give the user a few options to select from. If the user enters the option number, we call the function corresponding to the number, and then, the code moves to that part where a particular function is written, in the program.

# Options are as follows:

- 1. Order food
- 2. Reserve Table
- 3. Cancel Table
- 4. View Menu
- 5. Exit

```
def main():
  print("Our Online System provides the following options: ".center(90,"*"))
  print("""
      (1) ORDER FOOD
      (2) RESERVE TABLE
      (3) CANCEL TABLE
      (4) VIEW MENU
      (5) EXIT
           """)
  print("Select one from the above options".center(90,"."))
  option = input("Enter Your Choice No.: ")
  if option == "1": orderFood()
  elif option == "2": reserveTable()
  elif option == "3": cancelTable()
  elif option == '4': viewMenu()
  elif option == "5": exit()
  else:
    print("Try Again! Please, chose from the given options")
    main()
```

# Output:

# exit() method:

If the user enters option 5, we call the "exit()" method, and the program prints a thank you statement and then terminates the program, using the quit() method.

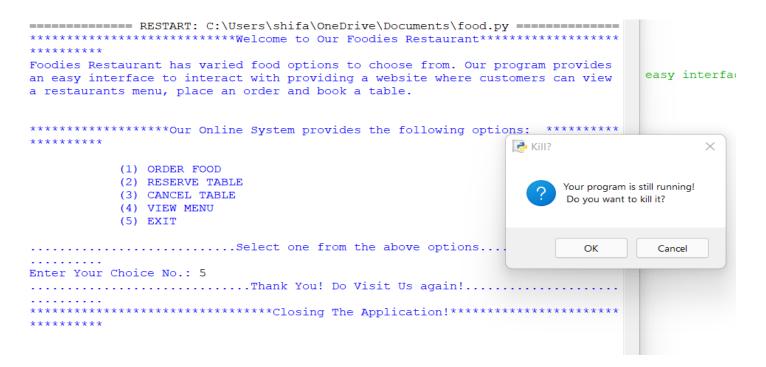
```
def exit():
    print("Thank You! Do Visit Us again!".center(90,"."))
    print("Closing The Application!".center(90,"*"))
    quit()
```

# (pre-defined function in python:

quit() → When it encounters the quit() function in the system, it terminates the execution of the program completely.)

```
def exit():
    print("Thank You! Do Visit Us again!".center(90,"."))
    print("Closing The Application!".center(90,"*"))
    quit()
```

## Output:



# viewMenu() method:

When the user enters option 4, we call the "viewMenu" method. In this method, we display our whole Food Menu to our user, in an order. We show the user the category and the items in that particular category.

# def viewMenu():

```
print("Our Online System provides the following categories and food items in our FoodMenu:
".center(90,"*"))
  print("\n")
  lis=['starters','maincourse','desserts','drinks']
  for i in lis:
    print("\n")
    print(i.upper().center(90,"."))
    print("|NO|".center(30," ")+"|FOOD NAME|".center(30," ")+"|PRICE|".center(30," "))
    mycursor.execute("select * from "+i)
    for x in mycursor:
      no = x[0]
      name = x[1]
      price = x[2]
      print(str(no).center(30," ") + str(name).center(30," ") + str(price).center(30," "))
  print("\n")
  main()
```

In the end, we call the main() function, in order to show the user the other available options he can choose from.

```
(print("\n") \rightarrow takes us to a new line)
```

```
def viewMenu():
    print("Our Online System provides the following categories and food items in our FoodMenu: ".center(90,"*"))
    print("\n")
    lis=['starters','maincourse','desserts','drinks']
    for i in lis:
        print("\n")
        print(i.upper().center(90,"."))
        print("|N0|".center(30," ")+"|FOOD NAME|".center(30," ")+"|PRICE|".center(30," "))
        mycursor.execute("select * from "+i)
        for x in mycursor:
            no = x[0]
            name = x[1]
            print(str(no).center(30," ") + str(name).center(30," ") + str(price).center(30," "))
        print("\n")
        main()
```

lis  $\rightarrow$  is our list of names of our categories tables i  $\rightarrow$  variable to access one category at a time, from lis

For each category,

We use the query: "select \* from "+i , to display all the elements or food items in that particular category table.

We use the execute() method to execute our query and mycursor() object along with it.

We print all the rows using a for loop and since our table has 3 columns, we take 3 variables, no, name and price, and print them together, in one line.

Output:

Foodies Restaurant has varied food options to choose from. Our program provides an easy interface to interact with providing a website where customers can view a restaurants menu, place an order and book a table.

- (1) ORDER FOOD
- (2) RESERVE TABLE
- (3) CANCEL TABLE
- (4) VIEW MENU
- (5) EXIT

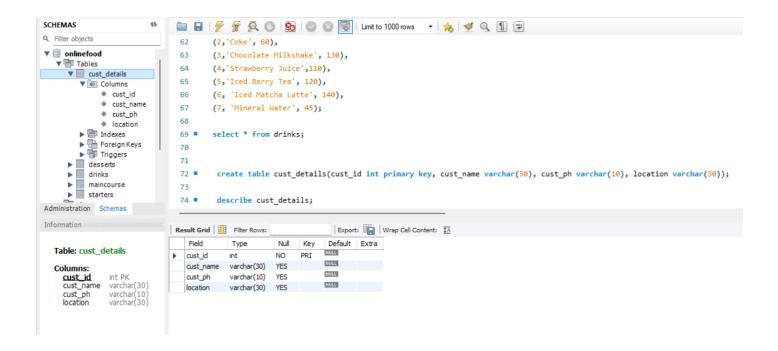
Enter Your Choice No.: 4

\*\*\*Our Online System provides the following categories and food items in our FoodMenu: \*\*\*

	STARTERS	
NO	FOOD NAME	PRICE
1	Manchuria	120
2	Crispy Corn	110
3	Chicken 65	150
4	Panner Tikka	80
5	Fish Chips	90
6	Aloo Tikka	80
7	Veg Spring Rolls	120
8	Majestic Chicken	130
9	Pepper Chicken	110
10	Kebab	150
	MA TAYGOTTO OF	
	MAINCOURSE	
NO  1	FOOD NAME  Butter Chicken	PRICE  170
2		
	Veg Biryani	120
3	Mughlai Biryani	160
4	Veg Fried Rice	80
5	Chicken Fried Rice	90
6	Chana Dal	80
7	Cashew Curry	110
8	Palak Paneer	130
9	Chicken Mandi	150
10	Lamb Curry	180
	DESSERTS	
NO	FOOD NAME	PRICE
1	Apricort Delight	110
2	Gajar ka halwa	80
3	Gulab Jamun	90
4	Chocolate Fudge	150
5	Choco Lava Cake	130
	DRINKS	
NO	FOOD NAME	PRICE
1	Lemonade	50
2	Coke	60
3	Chocolate Milkshake	130
4	Strawberry Juice	110
5	Iced Berry Tea	120
6	Iced Matcha Latte	140
7	Mineral Water	45
•	111110111111111111111111111111111111111	

#### **CUSTOMER DETAILS Table:**

cust\_details table:



We dynamically insert values of customer details, in the table, when the customer wants to order food, from our program.

# orderFood() method:

When the customer enters option 1, we call the "orderFood" method.

- In this method, we ask the customer to enter his details, which include, name, phone number, and location.
- We then assign that customer, with a random integer as cust\_id
- And insert all the values into our cut\_details table, dynamically.

We call another method chooseMenu(), in our orderFood() method and pass the cust\_id as an argument.

# def orderFood():

```
print("Let's Get You Some Food!".center(90,"."))
name=input("Enter your name : ")
phno = input("Enter your phone number: ")
location = input("Enter the location : ")
s='select cust_id from cust_details'
mycursor.execute(s)
data = mycursor.fetchall()
id = random.randint(1,100000)
sql='insert into cust_details values(%s,%s,%s,%s,%s)'
x=(id,name,phno,location)
mycursor.execute(sql,x)
db.commit()
chooseMenu(id)
print("\n")
main()
```

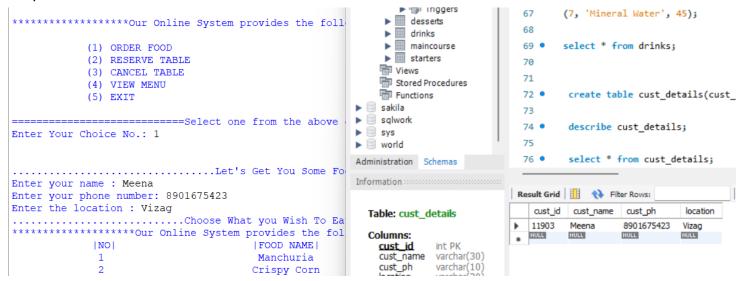
```
def orderFood():
   print("Let's Get You Some Food!".center(90,"."))
   name=input("Enter your name : ")
   phno = input("Enter your phone number: ")
    location = input("Enter the location : ")
   s='select cust_id from cust_details'
   mycursor.execute(s)
   data = mycursor.fetchall()
    id = random.randint(1,100000)
    sql='insert into cust details values(%s,%s,%s,%s)'
   x=(id, name, phno, location)
   mycursor.execute(sql,x)
   db.commit()
   chooseMenu(id)
   print("\n")
   main()
```

 $db.commit() \rightarrow this method commits the changes to the database.$ 

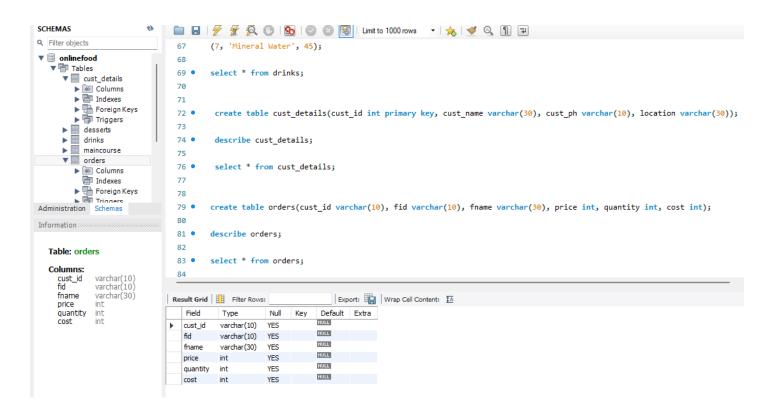
fetchall()  $\rightarrow$  fetches all the rows of a query result.

 $randint() \rightarrow returns$  an integer number selected element from the specified range.

#### Output:



#### **ORDERS Table:**



We dynamically insert values of cust\_id, in the table, when the customer wants to order food, from our program.

## chooseMenu() method:

We call another method chooseMenu(), in our orderFood() method and pass the cust\_id as argument.

Where we show the user each category's, food item and ask if he wants anything from that category:

If yes: we ask him to enter the food item number and the quantity and in the end print a bill

Else and if later the user enters 0: we move to the next category

After the end of selection, total amount to be paid and also the order details are mentioned.

```
def chooseMenu(cid):
    print("Choose What you Wish To Eat/Drinks".center(90,"."))

print("Our Online System provides the following options: ".center(90,"*"))

lis=['starters', 'maincourse', 'desserts', 'drinks']
    total=0
    for i in lis:
        print("|NO|".center(30," ")+"|FOOD NAME|".center(30," ")+"|PRICE|".center(30," "))
        mycursor.execute("select * from "+i)
        for x in mycursor:
        no = x[0]
        name = x[1]
        price = x[2]
```

```
print(str(no).center(30," ") + str(name).center(30," ") + str(price).center(30," "))
  print("\n")
  k=input("Do you want "+i+"? press yes or no : ")
  while True:
    if k=='yes':
      while True:
         fid=input("Enter FID : ")
         q=int(input("Enter quantity:"))
         z='select fname,fprice from '+i+' where fid = %s'
         w=(fid,)
         mycursor.execute(z,w)
        l=mycursor.fetchone()
        fname,fprice=I[0],I[1]
         cost=q*fprice
         s=(cid,fid,fname,fprice,q,cost)
         x='insert into orders values(%s,%s,%s,%s,%s,%s,%s)'
         mycursor.execute(x,s)
         db.commit()
         a=int(input("Enter 0 to quit "))
         if a==0:
           k='no'
           break
    elif k=='no':
       break
    else:
      k=input("enter a valid string yes/no : ")
print("\n")
```

# #order payment amount

```
total_bill=0
  print("Your bill is : ")
  sql='select fname,price,quantity,cost from orders where cust id=%s'
  d=(cid,)
  mycursor.execute(sql,d)
  l=mycursor.fetchall()
  i=0
  print("s.no".center(15," ")+"food name".center(15," ")+"price".center(15,"
")+"quantity".center(15," ")+"cost".center(15," "))
  for i in I:
    print(str(j).center(15," ")+str(i[0]).center(15," ")+str(i[1]).center(15," ")+str(i[2]).center(15,"
")+str(i[3]).center(15," "))
    j+=1
    total bill+=i[3]
  s="Total amount to be paid is: "+str(total_bill)
  print(s.center(90," "))
  print("\n")
```

```
def chooseMenu(cid):
    print("Choose What you Wish To Eat/Drinks".center(90,"."))
    print("Our Online System provides the following options: ".center(90,"*"))
    lis=['starters', 'maincourse', 'desserts', 'drinks']
    total=0
    for i in lis:
        print("|NO|".center(30," ")+"|FOOD NAME|".center(30," ")+"|PRICE|".center(30," "))
        mycursor.execute("select * from "+i)
        for x in mycursor:
            no = x[0]
            name = x[1]
            price = x[2]
            print(str(no).center(30," ") + str(name).center(30," ") + str(price).center(30," "))
        print("\n")
        k=input("Do you want "+i+"? press yes or no : ")
        while True:
            if k=='yes':
                    fid=input("Enter FID : ")
                    q=int(input("Enter quantity : "))
                    z='select fname,fprice from '+i+' where fid = %s'
                    w=(fid,)
                    mycursor.execute(z,w)
                    l=mycursor.fetchone()
                    fname,fprice=1[0],1[1]
                    cost=q*fprice
                    s=(cid,fid,fname,fprice,q,cost)
                    x='insert into orders values(%s,%s,%s,%s,%s,%s)'
                    mycursor.execute(x,s)
                    db.commit()
                    a=int(input("Enter 0 to quit "))
                    if a==0:
                        k='no'
                        break
            elif k=='no':
                break
                k=input("enter a valid string yes/no : ")
    print("\n")
```

```
total_bill=0
print("Your bill is : ")
sql='select fname,price,quantity,cost from orders where cust_id=%s'
d=(cid,)
mycursor.execute(sql,d)
l=mycursor.fetchall()
j=0
print("s.no".center(15," ")+"food name".center(15," ")+"price".center(15," ")+"quantity".center(15," ")+"cost".center(15," "))
for i in 1:
    print(str(j).center(15," ")+str(i[0]).center(15," ")+str(i[1]).center(15," ")+str(i[2]).center(15," ")+str(i[3]).center(15," "))
    j+=1
    total_bill+=i[3]
s="Total amount to be paid is : "+str(total_bill)
print(s.center(90," "))
print("\n")
```

#### **OUTPUT:**

```
-----Select one from the above options------
Enter Your Choice No.: 1
.....Let's Get You Some Food!.....
Enter your name : Meena
Enter your phone number: 9876657191
Enter the location : Vizag
**********************Our Online System provides the following options: **************
          NO
                                FOOD NAME
                                                          |PRICE|
                                Manchuria
                                                           120
                               Crispy Corn
                                                            110
                                Chicken 65
                                                            150
                               Panner Tikka
                                                            80
                                Fish Chips
                                                            90
                                Aloo Tikka
                                                            80
                                                           120
                              Veg Spring Rolls
                              Majestic Chicken
                                                           130
                               Pepper Chicken
                                                           110
           10
                                  Kebab
                                                           150
Do you want starters? press yes <mark>or</mark> no : yes
Enter FID : 1
Enter quantity : 1
Enter 0 to quit /
Enter FID : 2
Enter quantity : 2
Enter 0 to quit 0
```

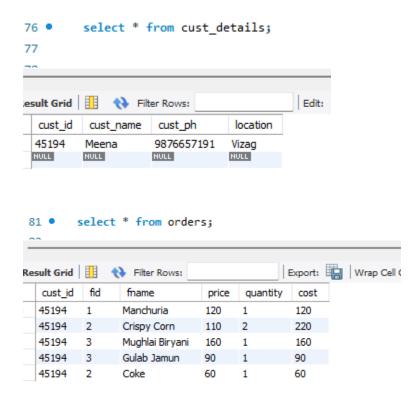
```
Enter 0 to quit 0
                                      FOOD NAME
                                                                      PRICE
             NO
                                     Butter Chicken
                                                                        170
                                      Veg Biryani
                                                                        120
                                    Mughlai Biryani
                                     Veg Fried Rice
                                   Chicken Fried Rice
                                       Chana Dal
                                                                        80
                                      Cashew Curry
                                                                        110
                                      Palak Paneer
                                                                        130
                                     Chicken Mandi
                                                                        150
                                       Lamb Curry
                                                                        180
Do you want maincourse? press yes or no : yes
Enter FID : 3
Enter quantity: 1
Enter 0 to quit 0
                                      FOOD NAME
                                                                      PRICE
             NO
                                    Apricort Delight
                                     Gajar ka halwa
                                      Gulab Jamun
                                                                         90
                                                                        150
                                    Chocolate Fudge
                                    Choco Lava Cake
                                                                        130
Do you want desserts? press yes or no : 3
enter a valid string yes/no : yes
Enter FID : 3
Enter quantity: 1
Enter 0 to quit 0
                                      FOOD NAME
                                                                      |PRICE|
             NO
                                        Lemonade
                                                                         50
                                          Coke
                                  Chocolate Milkshake
                                                                        130
                                    Strawberry Juice
                                                                        110
                                     Iced Berry Tea
                                                                        120
                                   Iced Matcha Latte
                                                                        140
                                     Mineral Water
Do you want drinks? press yes or no : yes
Enter FID : 2
Enter quantity: 1
Enter 0 to quit 0
Your bill is :
                 food name
     s.no
                                 price
                                               quantity
                                                               cost
                Manchuria
                                  120
                                                               120
                Crispy Corn
                                  110
                                                               220
              Mughlai Biryani
                                                               160
                Gulab Jamun
```

Total amount to be paid is : 650

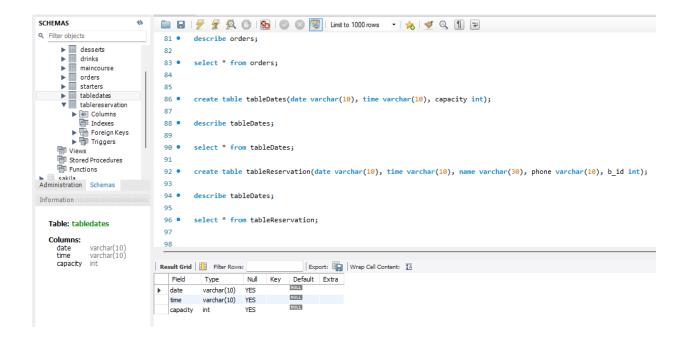
60

Coke

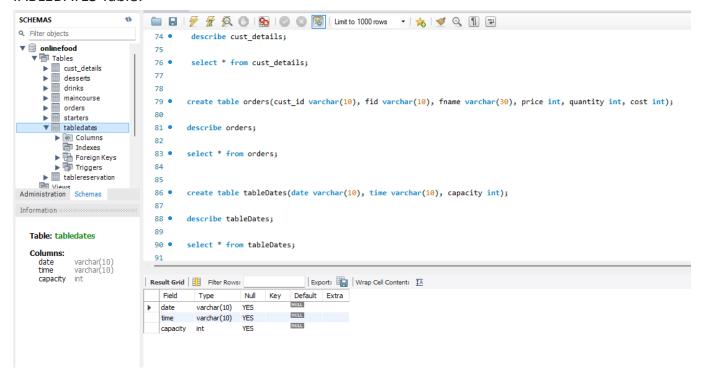
Changes in Database's Cust\_details and Order Table:



# **TABLERESERVATION Table:**



#### **TABLEDATES Table:**



# reserveTable() method:

When the user inputs option no - 2. We executed the reserve table function.

Here we first display that the restaurant is open on all days from 12pm to 11pm.

Then we show the user that he can only choose from the given time slots.

#### Everytime, a user reserves a table:

- We consider that we have 10 tables available for a given time slot and whenever one
  person books at that particular time slot and date, the capacity (i.e, the number of tables
  decreases by 1).
- If no one has booked any table yet at a particular date and time slot, we call the bookTable function and insert the initial capacity value in TableDate as 9.
- If someone else books a table at that same time slot and date we update the capacity value in the TableDate, i.e, the number of tables decreases by 1.
- Hence, if the tables are available we call the bookTable() function, and take user details and confirm the table booking.
- If all the 10 tables are occupied, we tell the user that "no tables are available".

# def reserveTable():

```
print("Restaurant is open on all days from 12:00 PM to 11:00 PM")
  print("Tables can be booked in given time slots, 12:00 PM, 01:00 PM, 02:00 PM, 03:00PM,
05:00PM, 06:00PM,07:00PM,08:00PM,09:00PM,10:00PM,11:00PM")
  date = input("Enter date of reservation in DD-MM-YYYY format : ")
  time = int(input("Select time slot between 12 PM to 11PM, Enter in hours only:"))
  while time<1 and time>12:
    time=int(input("Enter valid time:"))
  s='select capacity,time from tableDates where date=%s'
  d=(date,)
  mycursor.execute(s,d)
  l=mycursor.fetchall()
  if l==[]:
    s='insert into tableDates values(%s,%s,%s)'
    d=(date,time,9)
    mycursor.execute(s,d)
    db.commit()
    bookTable(date,time)
  else:
    if int(|[0][1])==time:
      if |[0][0]>=1:
        s='update tableDates set capacity=%s where date=%s and time=%s'
        d=(I[0][0]-1,date,time)
        mycursor.execute(s,d)
        db.commit()
        bookTable(date,time)
        print("Tables not available at the given time ")
    else:
      s='insert into tableDates values(%s,%s,%s)'
```

```
d=(date,time,9)
  mycursor.execute(s,d)
  db.commit()
  bookTable(date,time)
print("\n")
main()
```

# bookTable() method:

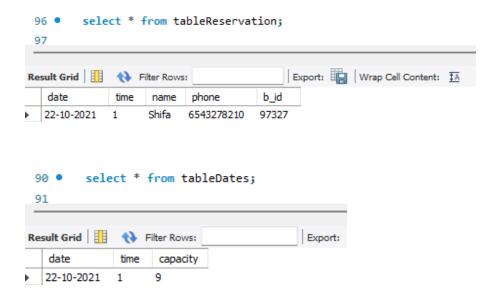
In this function, we ask for customer's details, like name and phone number and insert them into a TableReservation Table in our database and generate a random booking id.

# def bookTable(d,t):

```
print("Enter your details!".center(90,"."))
name=input("Enter your name : ")
phone=input("Enter your phone number : ")
s='select b id from tableReservation'
mycursor.execute(s)
l=mycursor.fetchall()
id=random.randint(1,100000)
while id in I:
  id=random.randint(1,100000)
s='insert into tableReservation values(%s,%s,%s,%s,%s)'
d=(d,t,name,phone,id)
mycursor.execute(s,d)
print("Booking successful")
print("Your booking id is ",id)
print("\n")
db.commit()
```

#### **OUTPUT:**

# **Database Outputs:**



# cancelTable() method:

If the customer selects the option no-3. We call the function cancelTable().

- Here, we ask the user to input his booking id.
- If the booking id is valid, we send a message that cancellation was successful. And we delete that customer's details from the TableReservation Table and update the capacity of tables in the TableDate table (i.e, increment the capacity by 1).
- Else, if the booking id id invalid, we send a message that the booking id is not valid.

# def cancelTable():

```
i=int(input("Enter booking id : "))
try:
  b='select date,time from tableReservation where b id=%s'
  q=(i,)
  mycursor.execute(b,q)
  l=mycursor.fetchone()
  date=I[0]
  time=I[1]
  sql1='delete from tableReservation where b id=%s'
  d1=(i,)
  mycursor.execute(sql1,d1)
  a='select capacity from tableDates where date=%s and time=%s'
  d2=(date,time)
  mycursor.execute(a,d2)
  l=mycursor.fetchone()
  sql2='update tableDates set capacity=%s where date=%s and time=%s'
  d2=(I[0]+1,date,time)
  mycursor.execute(sql2,d2)
  db.commit()
  print("Cancellation successful!")
  print("\n")
  main()
```

```
except:
  print("No booking found! ")
  print("\n")
  main()
```

#### **OUTPUT:**

#### Table Booked:

# Database output:

```
95
 96 •
         select * from tableReservation:
                                              Export: Wrap Cell Content: IA
Result Grid
               Filter Rows:
   date
                                         b_id
               time
                      name
                             phone
   22-10-2021
                     Shifa
                            6543278210
                                         97327
  22-10-2021
              2
                            8765290119
                                         39730
                     Siri
```

# Cancelling the booked table:

Since, we entered the wrong booking id

#### Else:

-----END OF PROJECT-----

# Conclusion:

This was how we implemented the project. This was a rough draft of our project idea, where we could connect to the database and perform basic CRUD operations. We were able to help the customer order food, reserve and cancel tables and view our food menu through our program.

We plan on improving our project in the future.

# THANK YOU!

