

# **MACHINGE PROBLEM**

6

**Conversion Application** 

<Justine Guillermo> <W22> <DATE> Create a program that can add, edit, delete, and view Item. The item should consist the following attribute. Id, name, description, and price.

Integrate the application in MySQL Database

```
import sys
import pymysql
import ast
def addItemToDB(i_id, name, desc, price):
   q = "INSERT INTO items (`id`, `name`, `description`, `price`) VALUES ('{}', '
{}', '{}', '{}') ".format(i_id, name, desc, price)
    try:
        print("execute")
        cur.execute(q)
        print("commit")
        db.commit()
        print('added to db')
    except Exception as e:
        db.rollback()
        print(e)
        print('adding to db failed')
def whatToEdit(i_id,trow):
    row = list(trow)
    s=''
    inp = 'something'
    while inp != '0':
        print(f'ID{s:<9}Name{s:<9}Description{s:<9}Price')</pre>
        print(f"{row[0]:<11}{row[1]:<13}{row[2]:<20}{row[3]}")</pre>
        print('[1]id')
        print('[2]name')
        print('[3]description')
        print('[4]price')
        print('[0]done/back')
        inp = input('your choice: ')
        if inp == '1':
            row[0] = input('enter new id:')
```

```
elif inp == '2':
            row[1] = input('enter new name:')
        elif inp == '3':
            row[2] = input('enter new description:')
        elif inp == '4':
            row[3] = input('enter new price:')
        else:
            pass
   q = "UPDATE items SET id=%s,name=%s,description = %s,price = %s WHERE id = %s
   try:
        print("execute")
       values = (row[0], row[1], row[2], row[3], i_id)
        cur.execute(q, values)
        print("commit")
        db.commit()
        print('edited db')
    except Exception as e:
        db.rollback()
       print(f'error: {e}')
def editItem(i_id):
   data = fetchData()
    try:
        for row in data:
            if row[0] == i id:
                choice = input(f'are you sure? to edit {row[1]} [y/n]: ')
                if choice == 'y' or 'Y':
                    whatToEdit(i_id,row)
                else:
                    pass
    except Exception as e:
        print(f'no item with id number {i id}{e}')
def deleteItem(i_id):
   data = fetchData()
   try:
        for row in data:
            if row[0] == i_id:
                choice = input(f'are you sure to delete {row[1]}? [y/n]: ')
                if choice == 'y' or 'Y':
                    q = "DELETE FROM items WHERE id = %s"
```

```
print('execute')
                    cur.execute(q, i_id)
                    print("commit")
                    db.commit()
                    print('item deleted')
                else:
    except Exception as e:
        print(f'no item with id number {i_id}')
def fetchData():
    q = "select * from items"
    cur.execute(q)
    data = cur.fetchall()
    return data
def displayItems():
    print(f'ID{s:<9}Name{s:<9}Description{s:<9}Price')</pre>
    data=fetchData()
    for row in data:
        print(f"{row[0]:<11}{row[1]:<13}{row[2]:<20}{row[3]}")</pre>
def openMain ():
    inp = 'something'
    while inp != '0':
        print('[1]add')
        print('[2]edit')
        print('[3]delete')
        print('[4]display items')
        print('[0]exit')
        inp = input('your choice: ')
        if inp == '1':
            print ('add item')
            i_id = input('id: ')
            name = input('Name: ')
            desc = input('Description: ')
            price = input('Price: ')
            addItemToDB(i_id, name, desc, price)
        elif inp == '2':
            print ('edit item')
            displayItems()
            id = input('enter id to edit: ')
```

```
editItem(id)
        elif inp == '3':
            print ('delete')
            displayItems()
            id = input('enter id to delete: ')
            deleteItem(id)
        elif inp == '4':
            print('Item List')
            displayItems()
        else:
            pass
if __name__ == '__main__':
    try:
        print("Connecting to DB")
        db = pymysql.connect("localhost", "root", "", "mp6")
        cur = db.cursor()
        print("Succesfully connected to DB")
        print("Starting program...")
        openMain()
        cur.close()
        db.close()
        print("Exiting program")
    except pymysql.DatabaseError:
        print('sorry cannot connect to the database')
        sys.exit()
    except:
        print ('Exiting program')
```

## Startup:

```
Connecting to DB
Succesfully connected to DB
Starting program...

[1]add

[2]edit

[3]delete

[4]display items

[0]exit

your choice:
```

## **DB** Table

id	name	description	price
123	new name	sadasda	312312312
321	qwe	asdas	3123

## Add

your choice: 1
add item
id: 999
Name: colgate
Description: clean ur teeth
Price: 199
execute
commit
added to db

## **DB** Table

+ Options			
id	name	description	price
123	new name	sadasda	312312312
321	qwe	asdas	3123
999	colgate	clean ur teeth	199

#### **Edit**

```
your choice: 2
edit item
                        Description
                                            Price
           Name
123
                        sadasda
                                            312312312
           new name
321
                        asdas
           qwe
                                             3123
                        clean ur teeth
           colgate
                                            199
enter id to edit: 999
are you sure? to edit colgate [y/n]: y
                        Description
ID
           Name
                                            Price
           colgate
999
                        clean ur teeth
                                            199
[1]id
[2]name
[3]description
[4]price
[0]done/back
your choice: 3
enter new description:make ur teeth bright :D
                        Description
ID
           Name
                                            Price
                        make ur teeth bright :D199
999
           colgate
[1]id
[2]name
[3]description
[4]price
[0]done/back
your choice: 0
execute
commit
edited db
```

#### **DB** Table

id	name	description	price
123	new name	sadasda	312312312
321	qwe	asdas	3123
999	colgate	make ur teeth bright :D	199

## **Delete**

```
your choice: 3
delete
                       Description
                                          Price
ID
          Name
                       sadasda
                                          312312312
123
          new name
321
                       asdas
          qwe
                                          3123
                       make ur teeth bright :D199
999
          colgate
enter id to delete: 999
are you sure to delete colgate? [y/n]: y
execute
commit
item deleted
```

#### **DB** Table

+ Options			
id	name	description	price
123	new name	sadasda	312312312
321	qwe	asdas	3123

## **Show all items**

your Item	choice: 4 List		
ID	Name	Description	Price
<b>123</b>	new name	sadasda	312312312
<b>321</b>	qwe	asdas	3123