**ANWESH GAURAV**

**CS5430 – Summer II 2022**

**Assignment 4: Database Application Development**

1. I have done all the coding in Python 3.10.6
2. There are two source codes- NorthwindDB.py and main.py
3. You need to change the password for the MySQL root user in the \_\_init\_\_() method. So, if your password is 12345, put:
4. class NorthwindDB:
5. def \_\_init\_\_(self):
6. try:
7. self.connection = connect(host = 'localhost',
8. user = 'root',
9. password = 12345,
10. database = 'northwind')
11. self.cursor = self.connection.cursor()
12. except Error as e:
13. print(e)

4. Open command prompt (Windows + R 🡪 type cmd, press Enter). Go to the directory where you have saved the above two files.

5. Check if python is installed in your system using command:

python --version

If not, install the latest version of Python.

6. Run the program in the directory where the python files are saved in the command prompt using below command:

python main.py

7. There will be a menu, like this:

Text

Description automatically generated

8. Customer Id is to be entered by user when adding a new Customer. It is a Varchar with length 5 or less. When a user places an order, our program checks

* If the user the Product Id, Customer Id, Employee ID and Shipper ID (ShippedVia) entered is correct or not by checking the corresponding values in the database.
* Entering alphabets in the postal code will give an error.
* Entering anything other than integer or float in freight details will give an error and you will be asked to try again.
* Shipping Date and Ship Region are optional and may not be entered while placing an order. Shipping an order can be done later via pressing option 4, which ships the order with shipped date being the current date and time value.

9. After you are done with a particular operation like add order or ship an order, this menu will again show up and you can perform other operations like displaying all the pending orders which have not been shipped yet. After you are done, press 7 to exit the program and the connection to the database will be closed.

Text

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