
DBMS LAB 01 ASSIGNMENT

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1 PROBLEM STATEMENT

You're a fresh graduate from the University of Gagababa. Now, you have applied to be a software developer at a company called FriedFish Inc. However, since you have graduated from a university with a ridiculous name, FriedFish Inc. is skeptical about your development skills. So they have decided that, to test your skills, they will give you two flat file structured databases ((i.e. a txt file, csv file etc.) that you have to work with. You have been tasked to write a program that can manipulate these two tables. The tables are a "Customer.txt" table and a "Product.txt" table. The Customer table has the following attributes: Customer_Id, name, Age, Gender, No_of_purchases, Customer_Type(e.g. frequent, moderate or rare). The product table has the following attributes: Product_Id, Name, Price, Weight.

2 TASK

Your job is to write a program (using any programming language like C, C++, Java, Python etc. except SQL) which will do the following:

1. Create the two databases i.e. Customer.txt and Product.txt and add some valid entries to them.
2. Take the customer ID of the customer as input and show his/her ID, name, age, gender, No_of_purchases and Customer_Type.
3. FriedFish Inc. decided that the products with price greater than 1,000\$ need to be dropped as they are not purchased too much. Your task is to write a program that searches for products with price greater than 1,000\$ and deletes that product entry from the database.
4. From the customers table, if the number of purchases of a customer is more than 20, your program will change their type to "Frequent".

3 DEMO OF THE DATABASES

The two databases should look something like the following:

Customer_id	name	age	gender	no_of_purchases	customer_type
2	Thor	23	Male	10	Moderate

Figure 1: Customer Database

Product_id	Name	Price(\$)	Weight(Kg)
1	Pampers	20	2

Figure 2: Product Database

4 DATE OF SUBMISSION

By Monday 11:59pm in google classroom via your iut email account.