**Web Front-End Demo**

**1PM With Haneen**

Update and alter Menu:

* usage: update, menu\_item, col, col\_value
* The program will return to you what you inputted, which will be useful if it resulted in a failure, i.e. not updated
* Also, any error messages will be shown in the server logs
* **[ can only support price and description updates, because we do not have triggers ]**

**Menu table:**

* **Name varchar (50)**
* **Price (numeric(5,2))**
* **Description varchar(200)**
* **Price > -1**

update, Breakaway Cold-Brewed Iced Matcha, price, -1 🡪**FAILURE**

update, Breakaway Cold-Brewed Iced Matcha, price, 1000.00 🡪 **FAILURE**

update, Breakaway Cold-Brewed Iced Matcha, description 🡪 **FAILURE**

update, Breakaway Cold-Brewed Iced Matcha, description, Milk, Ice, Matcha Tea Blend [Sugar, Ground Japanese Green Tea] 🡪 **SUCCESSFUL**

insert, SOMEREALLYLONGTEXTSTRINGTHATISGREATERTHANLENGTHOFKEY, 10.00, N/A 🡪 **FAILURE**

insert, Breakfast Burrito, 7.25, spiced chicken, cheesy eggs, white beans, cilantro, spinach wrap 🡪 **SUCCESSFUL**

View Sales for menu items:

* Usage, just type in any character string, and if it matches in the DB then return it.

Highest sellers:

Grapefruit Mimosa

Chicory Salad

Cold-Smoked Salmon Toast

Worst sellers:

Five Mountains Organic Tea

No sales:

Mexican Coke

Mailing List:

**Registers For Relation:**

* **email varchar (40)**
* **customer\_id varchar (10)**
* pkey = email, custid

customer entity table:

* customer\_id varchar(10)
* name varchar(40)

mailing\_list:

* email varchar(40)
* name varchar(40)

Usage:

* insert, name (not NULL), email (not NULL), birthday
* delete, name (not NULL)

Notes:

* as you can see in the table, the primary key for the registers for relation is email, custid
  + this allows my name and custid, to be associated with multiple email entries, which makes sense from a constraint perspective
  + Then If I delete off of just the name field, both of the tuples will be exited

Examples:

insert, Matthew Duran, md3420@columbia.edu, 5/1/93

insert, Matthew Duran, [mduran2420@gmail.com](mailto:mduran2420@gmail.com), 5/1/93

delete off of name, both will disappear

insert, Meghan Shah, [ms5767@columbia.edu](mailto:ms5767@columbia.edu), 5/12/98

insert, Meghan Shah, ms5767@gmail.com, 5/12/98

delete off of the email, only that given tuple will disappear, since that is a pkey

* deletions will first delete from the registers for relation
* then will delete the primary key from the mailing list
* however, we will keep the customer data in the customer table, since it makes sense that a person may want to exit/enter a mailing list at any time.
  + Furthermore, we should be keeping their underlying data, since they were presumably a customer before.
* Vim

Potential bugs:

* I think I am assuming that customer name is unique, when I should be going off of the cutomer ID. That could be a source of issue
* For some reason the pkey in the mailing\_list table is not getting deleted. Probably a white space issue since I do account for it.

Actual Code:

* Didn’t keep track of the number of queries in the DB, but they are probably like 10 – 15 just in this small webpage
  + Since I use data for checks here and there.
* Have a static directory where the jpg images are being sent to
* Templates house all of the html web pages that are being rendered
  + Contains the main template where the three other pages will inheret from as seen in the block content/endblock stuff
  + Look at all\_finances.html which shows the inheritance of the finances main page

Def execute\_mail\_insert() begins at line 1103

Def execute\_mail\_deletion() begins at 1034