

Firstly we have two views:

1. The inventory manager(command line)
2. Distributor worker(GUI)

For inventory manager:

1.Insert:

Before insert:

500	MASKS	HIUDHBIC
501	ICU	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

type:

Please choose one of the above 14 options: *1*

Please enter the drug ID you wish to insert: *506*

Please enter the drug storage_detail you wish to insert: *jndin*

Please enter the drug ingredient you wish to insert: *ndij*

Result:

Please choose one of the above 14 options: *4*

506	ndij	jndin
500	MASKS	HIUDHBIC
501	ICU	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

2.Delete:

before:

Please choose one of the above 14 options: 4

506	ndij	jndin
500	MASKS	HIUDHBIC
501	ICU	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

type:

Please choose one of the above 14 options: 2

Please enter the drug ID you wish to delete: 506

after:

500	MASKS	HIUDHBIC
501	ICU	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

3.Update:

Before : the same as before

type:

Please choose one of the above 14 options: 3

Please enter the medical ID you wish to update: 501

Please enter the column you wish to update: ingredient

Please enter the new inf you wish to update: ndj

after

500	MASKS	HIUDHBIC
501	ndj	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

4.Projection:

Before as above

Select ingredient

after:

Please choose one of the above 14 options: 11

Please enter the column you wish to select from drugingredient

MASKS

ndj

RESPIRATOR

bjh

MORPHINE

5.selection

before:

500	MASKS	HIUDHBIC
501	ndj	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

condition and after:

Please enter the condition you wish to selectmedical_id>500

501	ndj	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

6.join:

Before: drug is same as above before select

This is manager

	MANAGER_ID	MEDICAL_ID	PHONE_NUM
1	600	500	1000001
2	601	501	1000002
3	602	502	1000003
4	603	503	1000004
5	604	504	1000005
6	600	501	1000001
7	600	502	1000001
8	600	503	1000001
9	600	504	1000001

Condition and result:

Please enter the condition you wish to joint from drug and manager `d.medical_id = m.medical_id`

500	MASKS	HIUDHBIC	600	1000001
501	ndj	dark room	601	1000002
501	ndj	dark room	600	1000001
502	RESPIRATOR	Pressurized	602	1000003
502	RESPIRATOR	Pressurized	600	1000001
503	bjh	cool	600	1000001
503	bjh	cool	603	1000004
504	MORPHINE	cool	600	1000001
504	MORPHINE	cool	604	1000005

7.aggregation function:

Base on the design of my schema the only integer type i use is for id so it is meaningless to use max, min or average , so i only have the count(*)

Before:

500	MASKS	HIUDHBIC
501	ndj	dark room
502	RESPIRATOR	Pressurized
503	bjh	cool
504	MORPHINE	cool

after:

5

8. Nested group by:

The description:

13. nested group by: Retrieve max medical_id managed by each manager with conditions

Before: the info is same as below

```
Please enter the condition you wish to join from drug and managerd.medical_id = m.medical_id
500     MASKS           HIUDHBIC           600           1000001
501     ndj            dark room           601           1000002
501     ndj            dark room           600           1000001
502     RESPIRATOR     Pressurized        602           1000003
502     RESPIRATOR     Pressurized        600           1000001
503     bjh            cool                600           1000001
503     bjh            cool                603           1000004
504     MORPHINE       cool                600           1000001
504     MORPHINE       cool                604           1000005
```

type:

Please enter the condition you wish to group bymanager_id

Result:

504

501

502

503

504

9.Division:

description:

9. Division: find the manager holds all drugs

Before info:

```
Please enter the condition you wish to join from drug and managerd.medical_id = m.medical_id
500     MASKS           HIUDHBIC           600           1000001
501     ndj            dark room           601           1000002
501     ndj            dark room           600           1000001
502     RESPIRATOR     Pressurized        602           1000003
502     RESPIRATOR     Pressurized        600           1000001
503     bjh            cool                600           1000001
503     bjh            cool                603           1000004
504     MORPHINE       cool                600           1000001
504     MORPHINE       cool                604           1000005
```

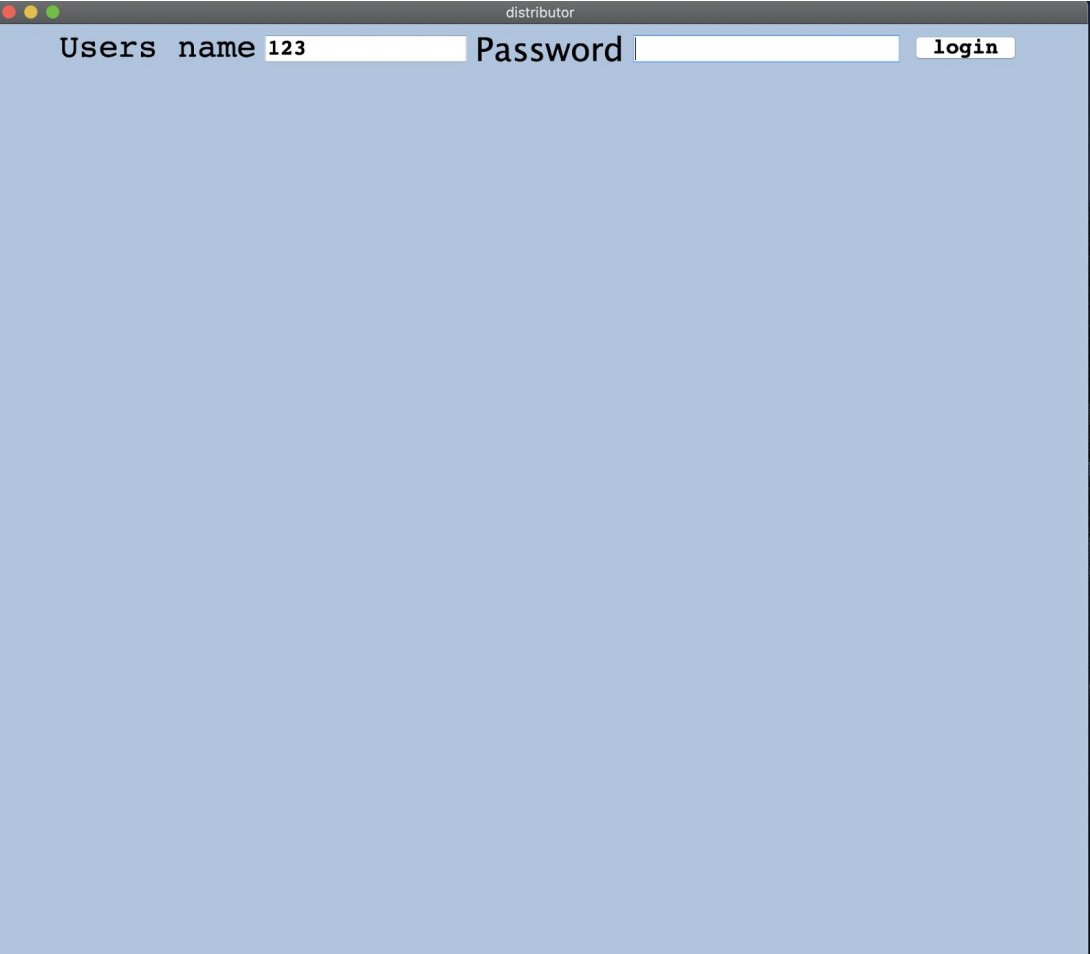
result:

Please choose one of the above 14 options: 9

600	500	1000001
600	501	1000001
600	502	1000001
600	503	1000001
600	504	1000001

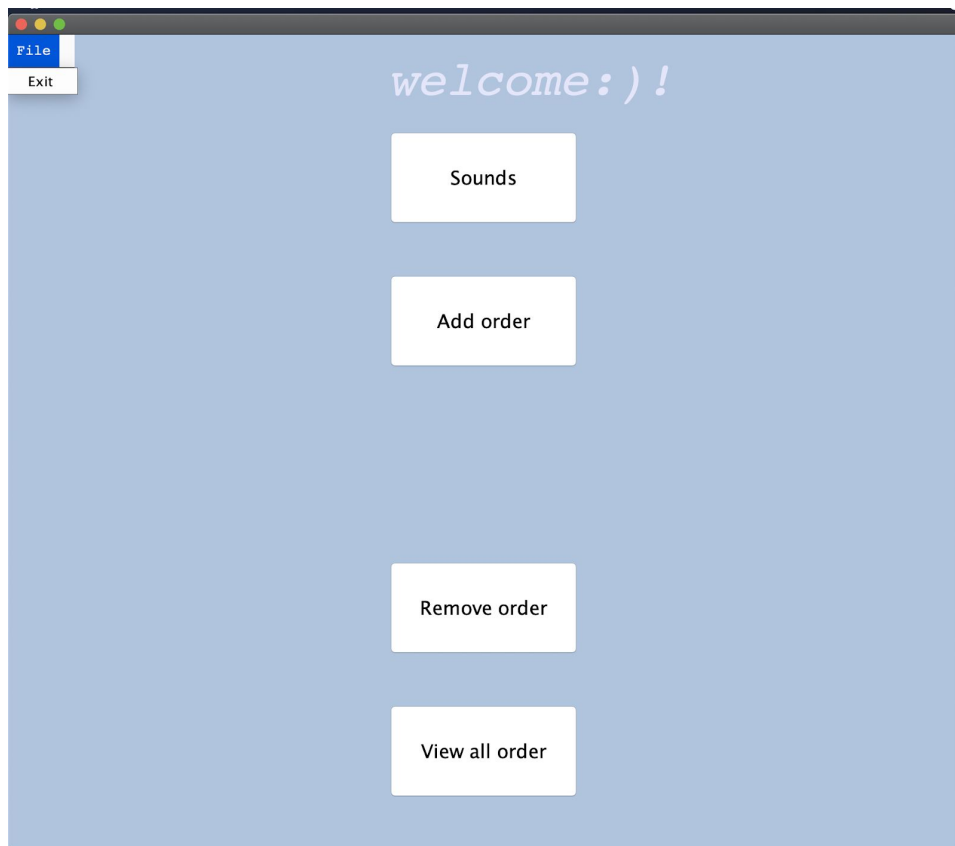
For distributor workers:

1. Insert distributor



The screenshot shows a web browser window with the title 'distributor'. The page has a light blue background. At the top, there is a login form with two input fields: 'Users name' and 'Password'. The 'Users name' field contains the text '123'. To the right of the 'Password' field is a 'login' button. The rest of the page is empty.

2.menu:



3.insert order

order_num need to be removed

Submit

Back

4.delete order

order_num

order_date

Submit

Back