C:\Users\Jonathan\Documents\School\CS 505\cs505p1>python manage.py

>help

cs505p1 by Genghis Goodman and Jonathan Dingess.

This is a database system implementing a mixture of DAC and MAC.

To be specific, GRANT options of DAC are implemented together with a chief security officer (SO) to oversee.

Usable commands:

login <user> <password> Logs in to the user account.

register <user> <password> Registers a new account.

create <tablename> <headers> Create a table with the given name with the given headers.

display <tablename> Display the contents of the given table.

write <tablename> <entry> Write the given entry to the given table.

remove <tablename> <entryno> Remove the numbered entry from the given table.

grant <user> <tablename> <grantOption> Grant the user permission to do action on table.

revoke <user> <tablename> Revoke the user's permission to do action on table.

help <command> Show this dialog, or show specific information about a certain command.

>register alice alicep

>register bruce brucep

>register claire clairep

>register dennis dennisp

>login alice alicep

INBOX: Welcome alice!

alice>create prices ITEM COST

alice>display prices

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# ITEM COST

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alice>write prices Apple 0.50

>>> Wrote ( Apple 0.50 ) to table prices

alice>write prices Banana 0.75

>>> Wrote ( Banana 0.75 ) to table prices

alice>write prices Orange 0.80

>>> Wrote ( Orange 0.80 ) to table prices

alice>display prices

=================

# ITEM COST

=================

1 Apple 0.50

2 Banana 0.75

3 Orange 0.80

alice>login bruce brucep

INBOX: Welcome bruce!

bruce>display prices

>>> ERROR: User bruce does not have read access to prices

bruce>login alice alicep

INBOX: Welcome alice!

alice>grant bruce prices 1

alice>login bruce brucep

INBOX: 2018-03-04 21:04 -- You have been granted access to prices by alice

bruce>display prices

=================

# ITEM COST

=================

1 Apple 0.50

2 Banana 0.75

3 Orange 0.80

bruce>write prices Pare 0.40

>>> Wrote ( Pare 0.40 ) to table prices

bruce>display prices

=================

# ITEM COST

=================

1 Apple 0.50

2 Banana 0.75

3 Orange 0.80

4 Pare 0.40

bruce>remove prices 4

>>> Deleted ( Pare 0.40 ) from table prices

bruce>write prices Pear 0.40

>>> Wrote ( Pear 0.40 ) to table prices

bruce>display prices

=================

# ITEM COST

=================

1 Apple 0.50

2 Banana 0.75

3 Orange 0.80

4 Pear 0.40

bruce>grant claire prices 0

bruce>login claire clairep

INBOX: 2018-03-04 21:07 -- You have been granted access to prices by bruce

claire>grant dennis prices 0

claire>login dennis dennisp

INBOX: 2018-03-04 21:07 -- You have been granted access to prices by claire

dennis>display prices

>>> ERROR: User dennis does not have read access to prices

dennis>login admin cs505p1

INBOX: Welcome admin!

admin>help

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revoke <user> <tablename> Revoke the user's permission to do action on table.

help <command> Show this dialog, or show specific information about a certain command.

Admin-only commands:

forbid <user> <tablename> Admin only: Forbid a user from performing an action on a table.

allow <user> <tablename> Admin only: Reverse the effects of forbid

admin>forbid bruce prices

ERROR: bruce is assigned to prices by alice

Inserting (dennis,prices) into forbidden may result in disruption of operations.

Are you sure you want to proceed? (y/n)>y

admin>login bruce brucep

INBOX: 2018-03-04 21:10 -- You have been forbidden access to prices by admin

bruce>display prices

>>> ERROR: User bruce does not have read access to prices

bruce>login claire clairep

INBOX: 2018-03-04 21:07 -- You have been granted access to prices by bruce

claire>display prices

>>> ERROR: User claire does not have read access to prices

claire>login alice alicep

INBOX: 2018-03-04 21:10 -- bruce has been forbidden access to prices by admin

alice>display prices

=================

# ITEM COST

=================

1 Apple 0.50

2 Banana 0.75

3 Orange 0.80

4 Pear 0.40

alice>grant bruce prices 0

ERROR: bruce is forbidden from prices

alice>login admin cs505p1

INBOX: 2018-03-04 21:11 -- alice attempted to grant bruce access to prices

admin>allow bruce prices

admin>grant bruce prices 0

admin>login bruce brucep

INBOX: 2018-03-04 21:12 -- You have been granted access to prices by admin

bruce>display prices

=================

# ITEM COST

=================

1 Apple 0.50

2 Banana 0.75

3 Orange 0.80

4 Pear 0.40

bruce>quit