--Kyra Thompson

--Ashley Deosaran

--Aida Mehovic

--Huy Dang

--PART A

CREATE TABLE Person (

email varchar(50) NOT NULL,

password char(64),

first\_name varchar(50),

last\_name varchar(50),

PRIMARY KEY(email)

)

CREATE TABLE FriendGroup (

fg\_id int NOT NULL AUTO\_INCREMENT,

fg\_name varchar(50) NOT NULL,

description varchar(50),

PRIMARY KEY(fg\_id)

)

CREATE TABLE Owns (

email varchar(50) NOT NULL,

fg\_id int NOT NULL,

PRIMARY KEY(email, fg\_id),

FOREIGN KEY(email) REFERENCES Person(email),

FOREIGN KEY(fg\_id) REFERENCES FriendGroup(fg\_id)

)

CREATE TABLE Member (

email varchar(50) NOT NULL,

fg\_id int NOT NULL,

PRIMARY KEY(email, fg\_id),

FOREIGN KEY(email) REFERENCES Person(email),

FOREIGN KEY(fg\_id) REFERENCES FriendGroup(fg\_id),

UNIQUE KEY(email, fg\_id)

)

CREATE TABLE ContentItem(

item\_id int NOT NULL AUTO\_INCREMENT,

Item\_name varchar(50),

Is\_pub BOOLEAN,

Post\_time DATETIME,

file\_path varchar(50),

PRIMARY KEY(item\_id)

)

CREATE TABLE Rate(

item\_id int NOT NULL,

email varchar(50) NOT NULL,

emoji varchar(50),

rate\_time DATETIME,

PRIMARY KEY(item\_id, email),

FOREIGN KEY(email) REFERENCES Person(email),

FOREIGN KEY(item\_id) REFERENCES ContentItem(item\_id)

)

CREATE TABLE Posted(

item\_id int NOT NULL,

email varchar(50) NOT NULL,

rate\_time DATETIME,

PRIMARY KEY(item\_id, email),

FOREIGN KEY(email) REFERENCES Person(email),

FOREIGN KEY(item\_id) REFERENCES ContentItem(item\_id)

)

CREATE TABLE Tag(

item\_id int(10) NOT NULL,

email varchar(50) NOT NULL,

tagged\_email varchar(50) NOT NULL,

status varchar(50),

tag\_time DATETIME,

PRIMARY KEY(item\_id, email, tagged\_email),

FOREIGN KEY(email) REFERENCES Person(email),

FOREIGN KEY(tagged\_email) REFERENCES Person(email),

FOREIGN KEY(item\_id) REFERENCES ContentItem(item\_id),

UNIQUE KEY(email, item\_id)

)

CREATE TABLE Share(

item\_id int(10) NOT NULL,

fg\_id int NOT NULL,

PRIMARY KEY(item\_id, fg\_id),

FOREIGN KEY(item\_id) REFERENCES ContentItem(item\_id),

FOREIGN KEY(fg\_id) REFERENCES FriendGroup(fg\_id),

)

--PART B

INSERT INTO Person VALUES (“AA@nyu.edu”, SHA2(‘AA’, 256), “Ann”, “Anderson”)

INSERT INTO Person VALUES (“BB@nyu.edu”, SHA2(‘BB’, 256), “Bob”, “Baker”)

INSERT INTO Person VALUES (“CC@nyu.edu”, SHA2(‘CC’, 256), “Cathy”, “Chang”)

INSERT INTO Person VALUES (“DD@nyu.edu”, SHA2(‘DD’, 256), “David”, “Davidson”)

INSERT INTO Person VALUES (“EE@nyu.edu”, SHA2(‘EE’, 256), “Ellen”, “Ellenberg”)

INSERT INTO Person VALUES (“FF@nyu.edu”, SHA2(‘FF’, 256), “Fred”, “Fox”)

INSERT INTO Person VALUES (“GG@nyu.edu”, SHA2(‘GG’, 256), “Gina”, “Gupta”)

INSERT INTO Person VALUES (“HH@nyu.edu”, SHA2(‘HH’, 256), “Helen”, “Harper”)

INSERT INTO FriendGroup(fg\_name, description) VALUES (‘Family’,”Ann’s Family Friend Group”)

INSERT INTO FriendGroup(fg\_name, description) VALUES (‘Family’,”Bob’s Family Friend Group”)

INSERT INTO FriendGroup(fg\_name, description) VALUES (‘Roommates’,”Ann’s Roommates Friend Group”)

INSERT INTO Owns VALUES (“AA@nyu.edu” , 1)

INSERT INTO Owns VALUES (“BB@nyu.edu”, 2)

INSERT INTO Owns VALUES (“AA@nyu.edu”, 3)

INSERT INTO Member VALUES (“CC@nyu.edu”, 1)

INSERT INTO Member VALUES (“DD@nyu.edu”, 1)

INSERT INTO Member VALUES (“EE@nyu.edu”, 1)

INSERT INTO Member VALUES (“FF@nyu.edu”, 2)

INSERT INTO Member VALUES (“EE@nyu.edu”, 2)

INSERT INTO Member VALUES (“GG@nyu.edu”,3)

INSERT INTO Member VALUES (“HH@nyu.edu”, 3)

INSERT INTO ContentItem(Item\_name, is\_pub, post\_time, file\_path) VALUES (‘Whiskers’, 0, 2018-30-10 03:05:01, NULL)

INSERT INTO ContentItem(Item\_name, is\_pub, post\_time, file\_path) VALUES (‘Leftover in fridge’, 0, 2018-30-10 04:00:01, NULL)

INSERT INTO ContentItem(Item\_name, is\_pub, post\_time, file\_path) VALUES (‘Rover’, 0, 2018-28-10 04:04:01, NULL)

INSERT INTO posted VALUES (1, ‘[AA@nyu.edu](mailto:AA@nyu.edu)’, ‘:)’, 2018-30-10 01:36:01)

INSERT INTO posted VALUES (2, ‘[AA@nyu.edu](mailto:AA@nyu.edu)’, ‘:(’, 2018-30-10 01:37:01)

INSERT INTO posted VALUES (3, ‘BB[@nyu.edu](mailto:AA@nyu.edu)’, ‘:P’, 2018 30 10 01:38:10)

INSERT INTO share VALUES (1, 1)

INSERT INTO share VALUES (2, 3)

INSERT INTO share VALUES (3, 2)

--PART C

SELECT ContentItem.item\_id, ContentItem.item\_name FROM ContentItem

JOIN Share

ON (ContentItem.item\_id = Share.item\_id )

WHERE Share.fg\_id IN (

SELECT FriendGroup.fg\_id

FROM Member

JOIN Owns ON (Owns.fg\_id = FriendGroup.fg\_id)

WHERE Member.email = “DD[@nyu.edu](mailto:AA@nyu.edu)” OR Owns.email = “DD[@nyu.edu](mailto:AA@nyu.edu)”

) OR ContentItem.Is\_pub