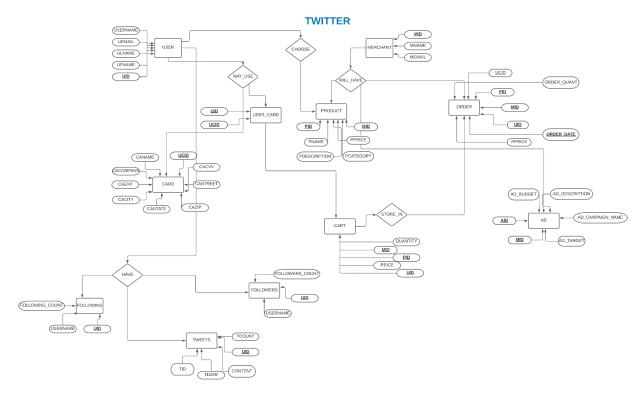
# **CSCI 362 project**

### Twitter relational model



### SQL Code to create the mini world

create database Twitter;

# #good practice of creating the schema with the new tables name. ( username varchar(15) not null, ufname varchar(15) not null, lname varchar(15) not null, uemail varchar(50) not null, uid integer(4), unique (username), primary key (uid)); #creation of the primary key.

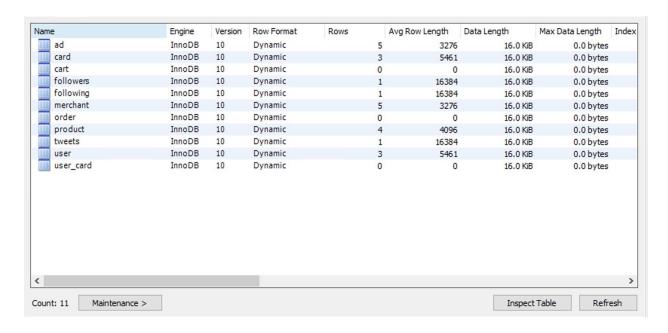
CREATE TABLE Twitter.merchant #Same as the table above.
( mname varchar(25) not null,

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mid integer(4),
memail varchar(25) not null,
primary key (mid),
unique (mname));
CREATE TABLE Twitter.product
(pid integer(4),
mid integer(4),
pname varchar(15) not null,
pprice decimal(4) not null,
pdescription varchar(25),
pcategory varchar(15),
primary key (pid,mid),
foreign key (mid) references Twitter.merchant(mid));
CREATE TABLE Twitter.card
(ucid integer(4),
cacvv char(3) not null,
castreet varchar(25) not null,
cazip char(5) not null,
castate char(2) not null,
cacity varchar(10) not null,
caexp date,
cacompany varchar(10) not null,
caname varchar(15) not null,
primary key (ucid));
CREATE TABLE Twitter.order
(order date char(8),
pprice decimal(4),
order quantity integer(2),
ucid integer(4),
pid integer(4),
mid integer(4),
uid integer(4),
primary key (uid, mid, pid, order date),
#primary key is a combination of a foreign key and local file.
foreign key (uid) references Twitter.user(uid),
foreign key (mid) references Twitter.merchant(mid),
foreign key (pid) references Twitter.product(pid),
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foreign key (ucid) references Twitter.card(ucid));
#Foreign key referencing to an outside table.
CREATE TABLE Twitter.ad
(ad_campaign_name varchar(25) not null,
ad budget decimal(4) not null,
ad description varchar(15),
ad target varchar(15) not null,
aid integer(4),
mid integer(4),
primary key (aid),
foreign key (mid) references Twitter.merchant(mid));
CREATE TABLE Twitter.cart
(quantity integer(2),
mid integer(4),
pid integer(4),
price decimal(4),
uid integer(4),
primary key (mid, pid, uid),
foreign key (mid) references Twitter.merchant(mid),
foreign key (pid) references Twitter.product(pid),
foreign key (uid) references Twitter.user(uid));
CREATE TABLE Twitter.user card
(uid integer(4),
ucid integer(4),
primary key (uid, ucid),
foreign key (uid) references Twitter.user(uid),
foreign key(ucid) references Twitter.card(ucid));
CREATE TABLE Twitter.followers
(followers count varchar(10),
uid integer(4),
username varchar(15),
primary key (uid),
foreign key(uid) references Twitter.user(uid));
CREATE TABLE Twitter.following
(following count varchar(10),
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uid integer(4), username varchar(15), primary key(uid), foreign key(uid) references Twitter.user(uid));

CREATE TABLE Twitter.tweets (tcount varchar(5), tid integer(4), uid integer(4), tdate date, content varchar(140) not null, primary key(uid, tid), foreign key(uid) references Twitter.user(uid));



## SQL Code to insert, delete and modify the tables.

### # Ad table

DELETE FROM ad WHERE aid = 0002;

UPDATE ad SET ad campaign name = 'soda' WHERE mid = 0001;



### # Card table

DELETE FROM card WHERE ucid = 2000;

UPDATE card SET caname = 'CSCI' WHERE ucid = 3000;

0	11 21:06:41 DELETE FROM card WHERE ucid = 2000	1 row(s) affected	0.000 sec
0	12 21:06:46 UPDATE card SET caname = 'CSCI' WHERE ucid = 3000	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec

### # Cart table

DELETE FROM cart WHERE pid = 0001;

UPDATE cart SET quantity = 200 WHERE mid = 0001;

0	13 21:08:34 DELETE FROM cart WHERE pid = 0001	0 row(s) affected	0.000 sec
0	14 21:12:08 UPDATE cart SET quantity = 200 WHERE mid = 0001	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.016 sec

### # followers table

DELETE FROM followers WHERE uid = 3000;

UPDATE followers SET username = '362' WHERE uid = 2000;

0	15 21:14:57 DELETE FROM followers WHERE uid = 3000	0 row(s) affected	0.000 sec
0	16 21:15:01 UPDATE followers SET username = '362' WHERE uid = 2000	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.297 sec

### # following table

DELETE FROM following WHERE uid = 3000;

UPDATE following SET username = '362' WHERE uid = 2000;

0	17 21:15:57 DELETE FROM following WHERE uid = 3000	0 row(s) affected	0.000 sec
0	18 21:16:00 UPDATE following SET usemame = '362' WHERE uid = 2000	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.078 sec

### # merchant table

Key constraint when trying to delete.

UPDATE merchant SET mname = 'NotGoogle' WHERE mid = 0002;

0	22 21:18:55 UPDATE merchant SET mname = 'NotGoogle' WHERE mid = 0002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
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### # order table

DELETE FROM Twitter.order WHERE pid = 0101;

UPDATE Twitter.order SET order date = 12/20/2021 WHERE mid = 0201;

0	23 21:23:53 DELETE FROM Twitter.order WHERE pid = 0101	0 row(s) affected	0.000 sec
0	24 21:23:56 UPDATE Twitter.order SET order_date = 12/20/2021 WHERE mid = 0201	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec

### # product table

DELETE FROM product WHERE pid = 1010;

UPDATE product SET pdescription = 'Best looking accesory' WHERE mid = 0201;

0	25 21:25:33 DELETE FROM product WHERE pid = 1010	1 row(s) affected	0.015 sec
0	26 21:25:37 UPDATE product SET pdescription = 'Best looking accesory' WHERE mid = 0201	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec

### # tweets table

DELETE FROM Twitter.merchant WHERE tid = 9999;

# I do not understand why it is not working.

UPDATE tweets SET content = 'Best looking accesory ever' WHERE uid = 2000;

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35 21:32:11 DELETE FROM Twitter.merchant WHERE tid = 9999 Error Code: 1054. Unknown column 'tid' in 'where clause' 0.000 sec

36 21:32:16 UPDATE tweets SET content = 'Best looking accessory ever' WHERE uid = 2000 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.000 sec
```

### # user table

DELETE FROM user WHERE uid = 3620;

UPDATE user SET uemail = 'CSCS362@ronnycoste.com' WHERE uid = 3000;

0	37 21:34:43 DELETE FROM user WHERE uid = 3620	1 row(s) affected	0.016 sec
0	38 21:34:47 UPDATE user SET uemail = 'CSCS362@ronnycoste.com' WHERE uid = 3000	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec

### # user card table

DELETE FROM user card WHERE uid = 3000;

UPDATE user\_card SET ucid = '5000' WHERE uid = 3000;

0	39 21:35:27 DELETE FROM user_card WHERE uid = 3000	0 row(s) affected	0.000 sec
0	40 21:37:24 UPDATE user_card SET ucid = '5000' WHERE uid = 3000	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec

### Sample SQL codes to retrieve data from tables.

