

SQL statement for creating tables and constraints

```
5 CREATE TABLE business
6     (business_id CHAR(22),
7       name VARCHAR(60) NOT NULL,
8       address VARCHAR(75),
9       city VARCHAR(30) NOT NULL,
0       postal_code VARCHAR(7),
1       stars DECIMAL (2, 1) CHECK (stars >= 1 AND stars <= 5),
2       review_count INT DEFAULT 0 CHECK (review_count >= 0),
3       PRIMARY KEY (business_id));
4
5
6 CREATE TABLE checkin
7     (checkin_id INT,
8       business_id CHAR(22) NOT NULL,
9       date DATETIME NOT NULL DEFAULT GETDATE(),
0       PRIMARY KEY (checkin_id),
1       FOREIGN KEY (business_id) REFERENCES business);
2
3 CREATE TABLE tip
4     (tip_id INT,
5       user_id CHAR(22) NOT NULL,
6       business_id CHAR(22) NOT NULL,
7       date DATETIME NOT NULL DEFAULT GETDATE(),
8       compliment_count INT DEFAULT 0 CHECK (compliment_count >= 0),
9       PRIMARY KEY (tip_id),
0       FOREIGN KEY (business_id) REFERENCES business);
1
2 CREATE TABLE user_yelp
3     (user_id CHAR(22),
4       name VARCHAR(35) NOT NULL,
5       review_count INT DEFAULT 0 CHECK (review_count >= 0),
6       yelping_since DATETIME NOT NULL DEFAULT GETDATE(),
7       useful INT DEFAULT 0 CHECK (useful >= 0),
8       funny INT DEFAULT 0 CHECK (funny >= 0),
9       cool INT DEFAULT 0 CHECK (cool >= 0),
0       fans INT DEFAULT 0 CHECK (fans >= 0),
1       average_stars DECIMAL (3, 2) CHECK (average_stars >= 1 AND average_stars <= 5),
2       PRIMARY KEY (user_id));
3
4 CREATE TABLE review
5     (review_id CHAR(22),
6       user_id CHAR(22) NOT NULL,
7       business_id CHAR(22) NOT NULL,
8       stars INT NOT NULL CHECK (stars >= 1 AND stars <= 5),
9       useful INT DEFAULT 0 CHECK (useful >= 0),
0       funny INT DEFAULT 0 CHECK (funny >= 0),
1       cool INT DEFAULT 0 CHECK (cool >= 0),
2       date DATETIME DEFAULT GETDATE(),
3       PRIMARY KEY (review_id),
4       FOREIGN KEY (user_id) REFERENCES user_yelp,
5       FOREIGN KEY (business_id) REFERENCES business);
6
```

- ```

7 CREATE TABLE friendship
8 (user_id CHAR(22),
9 friend CHAR(22),
10 PRIMARY KEY (user_id, friend),
11 FOREIGN KEY (user_id) REFERENCES user_yelp,
12 FOREIGN KEY (friend) REFERENCES user_yelp);

```

Order of inserting data

- ```

4 BULK INSERT business
5 FROM 'd:\userdata\business_ynw2.csv'
6 WITH (FORMAT = 'CSV', FIRSTROW=2)
7
8 BULK INSERT user_yelp
9 FROM 'd:\userdata\user_yelp_ynw2.csv'
10 WITH (FORMAT = 'CSV', FIRSTROW=2)
11
12 BULK INSERT checkin
13 FROM 'd:\userdata\checkin_ynw2.csv'
14 WITH (FORMAT = 'CSV', FIRSTROW=2)
15
16 BULK INSERT tip
17 FROM 'd:\userdata\tip_ynw2.csv'
18 WITH (FORMAT = 'CSV', FIRSTROW=2)
19
20 BULK INSERT review
21 FROM 'd:\userdata\review_ynw2.csv'
22 WITH (FORMAT = 'CSV', FIRSTROW=2)
23
24 BULK INSERT friendship
25 FROM 'd:\userdata\friendship_ynw2.csv'
26 WITH (FORMAT = 'CSV', FIRSTROW=2)

```