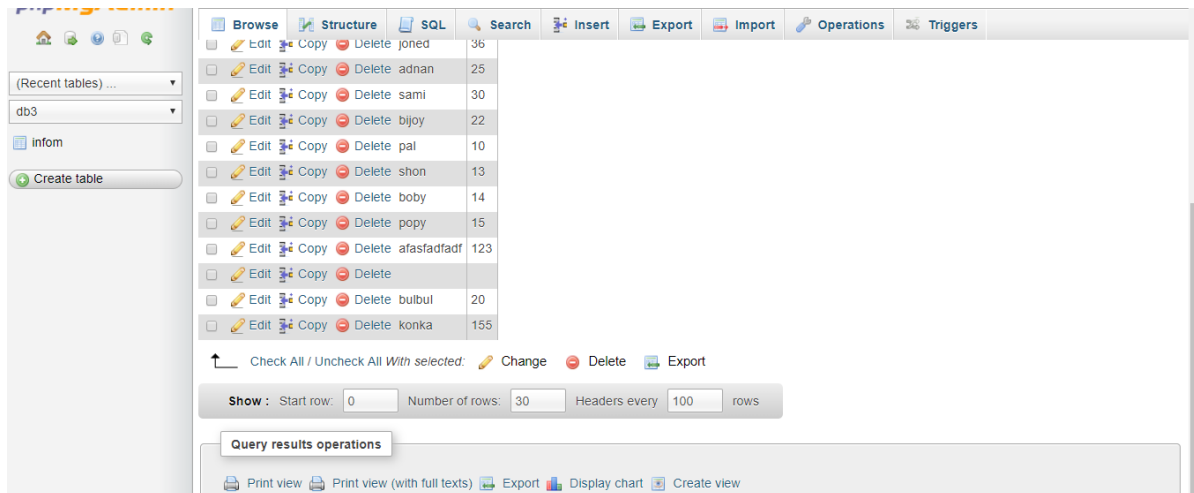


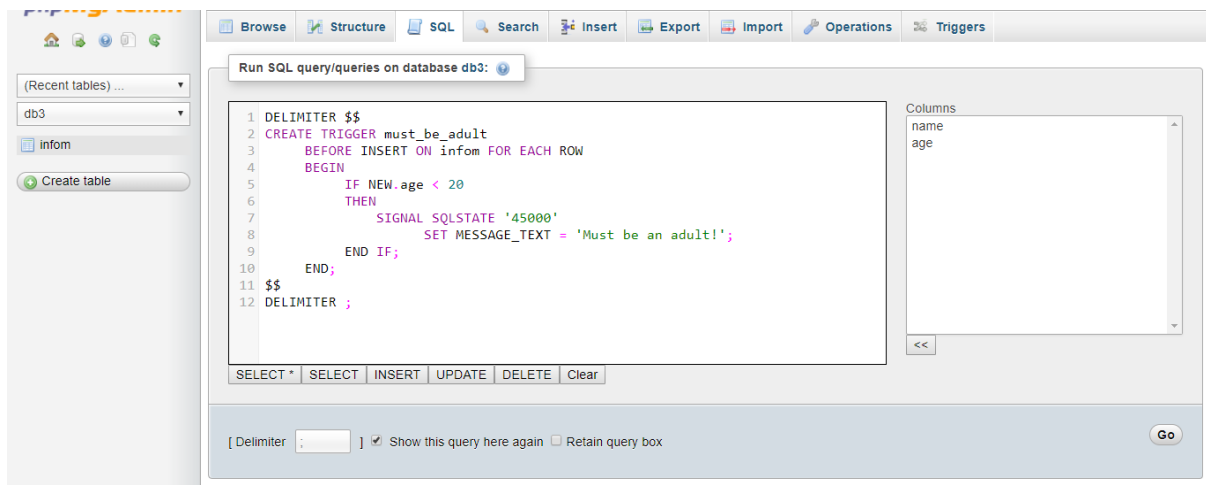
Lesson 17- database triggers

- 1- Create Instagram database
- 2- Add trigger to database to control user input only adult
- 3- Add trigger to database to stop following yourself

Create database



Add trigger to database



See result

```
c:\wamp\bin\mysql\mysql5.5.24\bin\mysql.exe
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 143
Server version: 5.5.24-log MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use db3;
Database changed
mysql> INSERT INTO `inform`(`name`,`age`) VALUES ('konka','15');
ERROR 1644 (45000): Must be an adult!
mysql> INSERT INTO `inform`(`name`,`age`) VALUES ('konka','155');
Query OK, 1 row affected (0.13 sec)

mysql>
```

DatabasesSQLStatusUsersExportImp

Run SQL query/queries on server "localhost": ?

```
1
2 CREATE DATABASE ig_clone;
3 USE ig_clone;
4
5 CREATE TABLE users (
6     id INTEGER AUTO_INCREMENT PRIMARY KEY,
7     username VARCHAR(255) UNIQUE NOT NULL,
8     created_at TIMESTAMP DEFAULT NOW()
9 );
10
11 CREATE TABLE photos (
12     id INTEGER AUTO_INCREMENT PRIMARY KEY,
13     image_url VARCHAR(255) NOT NULL,
14     user_id INTEGER NOT NULL,
15     created_at TIMESTAMP DEFAULT NOW(),
```

Clear

Create ig_clone database

localhost » ig_clone

		Structure	SQL	Search	Query	Export	Import	Operations		
	Table	Action							Rows	Type
<input type="checkbox"/>	comments	Browse	Structure	Search	Insert	Empty	Drop		7,488	InnoDB
<input type="checkbox"/>	follows	Browse	Structure	Search	Insert	Empty	Drop		7,623	InnoDB
<input type="checkbox"/>	likes	Browse	Structure	Search	Insert	Empty	Drop		8,782	InnoDB
<input type="checkbox"/>	photos	Browse	Structure	Search	Insert	Empty	Drop		257	InnoDB
<input type="checkbox"/>	photo_tags	Browse	Structure	Search	Insert	Empty	Drop		501	InnoDB
<input type="checkbox"/>	tags	Browse	Structure	Search	Insert	Empty	Drop		21	InnoDB
<input type="checkbox"/>	users	Browse	Structure	Search	Insert	Empty	Drop		100	InnoDB
7 tables		Sum							24,772	InnoDB

☐ Check All / Uncheck All
 With selected: ▼

Add trigger to database

☐ Browse
 ☒ Structure
 ☐ SQL
 ☐ Search
 ☐ Insert
 ☐ Export

THEN
SIGNAL SQLSTATE '45000'

Run SQL query/queries on database ig_clone:

```

1 DELIMITER $$
2 CREATE TRIGGER prevent_self_follows
3   before insert ON follows FOR EACH ROW
4   BEGIN
5     if new.follower_id = new.followee_id
6     THEN
7       SIGNAL SQLSTATE '45000'
8       SET MESSAGE_TEXT = 'YOU CAN NOT FOLLOW YOURSELF';
9     END IF;
10    END;
11 $$
12 DELIMITER ;
  
```

See result

```
c:\wamp\bin\mysql\mysql5.5.24\bin\mysql.exe

mysql> source ig.sql;
ERROR:
Failed to open file 'ig.sql', error: 2
mysql> source ig_clone_data;
ERROR:
Failed to open file 'ig_clone_data', error: 2
(Rmysql> INSERT INTO follows(follower_id, followee_id) VALUES (2, 1), (2, 3)
-> ;
ig_ ERROR 1062 (23000): Duplicate entry '2-1' for key 'PRIMARY'
mysql> INSERT INTO follows(follower_id, followee_id) VALUES (2, 1), (2, 3);
ERROR 1062 (23000): Duplicate entry '2-1' for key 'PRIMARY'
mysql> INSERT INTO follows(follower_id, followee_id) VALUES (2, 1), (7, 3);
ERROR 1062 (23000): Duplicate entry '2-1' for key 'PRIMARY'
mysql> INSERT INTO follows(follower_id, followee_id) VALUES (2, 1), (7, 7);
ERROR 1062 (23000): Duplicate entry '2-1' for key 'PRIMARY'
mysql> INSERT INTO follows(follower_id, followee_id) VALUES (2, 7), (7, 7);
ERROR 1062 (23000): Duplicate entry '2-7' for key 'PRIMARY'
mysql> INSERT INTO follows(follower_id, followee_id) VALUES (7, 7), (7, 7);
ERROR 1644 (45000): YOU CAN NOT FOLLOW YOURSELF
mysql>
```

c:\wamp\bin\mysql\mysql5.5.24\bin\mysql.exe

100	72	2018-05-13 02:34:20
100	73	2018-05-13 02:34:20
100	74	2018-05-13 02:34:20
100	75	2018-05-13 02:34:20
100	76	2018-05-13 02:34:20
100	77	2018-05-13 02:34:20
100	78	2018-05-13 02:34:20
100	79	2018-05-13 02:34:20
100	80	2018-05-13 02:34:20
100	81	2018-05-13 02:34:20
100	82	2018-05-13 02:34:20
100	83	2018-05-13 02:34:20
100	84	2018-05-13 02:34:20
100	85	2018-05-13 02:34:20
100	86	2018-05-13 02:34:20
100	87	2018-05-13 02:34:20
100	88	2018-05-13 02:34:20
100	89	2018-05-13 02:34:20
100	90	2018-05-13 02:34:20
100	91	2018-05-13 02:34:20
100	92	2018-05-13 02:34:20
100	93	2018-05-13 02:34:20
100	94	2018-05-13 02:34:20
100	95	2018-05-13 02:34:20
100	96	2018-05-13 02:34:20
100	97	2018-05-13 02:34:20
100	98	2018-05-13 02:34:20
100	99	2018-05-13 02:34:20

7623 rows in set (0.00 sec)

mysql> select * from follows limit 5;

follower_id	followee_id	created_at
2	1	2018-05-13 02:34:20
2	3	2018-05-13 02:34:20
2	4	2018-05-13 02:34:20
2	5	2018-05-13 02:34:20
2	6	2018-05-13 02:34:20

5 rows in set (0.00 sec)

mysql> delete from follows where follower-ID = 2 AND FOLLOWEE_ID =