Lab 3 MySQL DB Commands
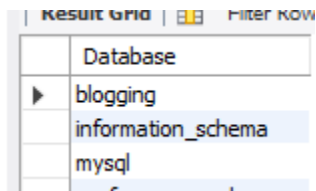
This creates the Blogging database, then we input SHOW DATABASES to ensure it was made:

```sql
CREATE DATABASE Blogging;
1    SHOW DATABASES;
```

Database
▶ blogging
information_schema
mysql

Then we navigate into the new database with:
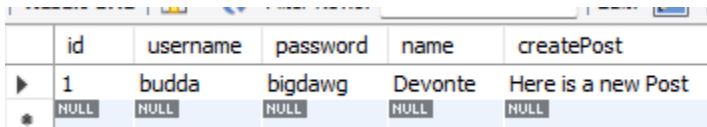```sql
1   use blogging;
```

Input this line of code to create a Table for User:

```sql
CREATE TABLE user (id INT, username VARCHAR(50), password VARCHAR(50), name VARCHAR(50), createPost VARCHAR(50), PRIMARY KEY(id));
```

Insert some values for test data:

```sql
INSERT INTO user VALUES (1, "budda", "bigdawg", "Devonte", "Here is a new Post");
```

Then SELECT * FROM blogging.user;, to see the Table values:

id	username	password	name	createPost
▶ 1	budda	bigdawg	Devonte	Here is a new Post
* NULL	NULL	NULL	NULL	NULL

Now that the primary user Table is complete, the posts Table can be added along with the FK:

```sql
CREATE TABLE posts (
    id INT PRIMARY KEY,
    user_id INT,
    postTitle VARCHAR(50),
    description VARCHAR(1000),
    time DATE,
    image BLOB,
    FOREIGN KEY (user_id) REFERENCES user(id)
);
```

And lastly, we add the Table for audience along with its FK's:

```sql
CREATE TABLE audience (
    id INT PRIMARY KEY AUTO_INCREMENT,
    post_id INT,
    user_id INT,
    action_type ENUM('like', 'comment', 'share'),
    comment VARCHAR(1000),
    action_time DATETIME DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (post_id) REFERENCES posts(id),
    FOREIGN KEY (user_id) REFERENCES user(id)
);
```

Here is the total database structure:

- ▼ **blogging**
  - ▼ Tables
    - ▼ audience
      - ▶ Columns
      - ▶ Indexes
      - ▼ Foreign Keys
        - audience_ibfk_1
        - audience_ibfk_2
      - ▶ Triggers
    - ▼ posts
      - ▶ Columns
      - ▶ Indexes
      - ▼ Foreign Keys
        - posts_ibfk_1
      - ▶ Triggers
    - ▶ user
  - Views
  - Stored Procedures
  - Functions
- ▶ sys