Database Schema for ASTA Blog System

```
1. Users Table:
CREATE TABLE users (
  id INT AUTO_INCREMENT PRIMARY KEY,
  username VARCHAR(50) NOT NULL UNIQUE,
  email VARCHAR(100) NOT NULL UNIQUE,
  password VARCHAR(255) NOT NULL,
  full_name VARCHAR(100),
  profile_picture VARCHAR(255),
  bio TEXT,
  location VARCHAR(100),
  is_admin BOOLEAN DEFAULT FALSE,
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
         updated_at
                     TIMESTAMP DEFAULT CURRENT_TIMESTAMP
                                                                    ON
                                                                         UPDATE
CURRENT_TIMESTAMP
);
2. Posts Table:
CREATE TABLE posts (
  id INT AUTO_INCREMENT PRIMARY KEY,
  title VARCHAR(255) NOT NULL,
  body TEXT NOT NULL,
  image VARCHAR(255),
  user_id INT NOT NULL,
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
```

```
TIMESTAMP DEFAULT CURRENT_TIMESTAMP
         updated at
                                                                    ON
                                                                          UPDATE
CURRENT_TIMESTAMP,
  FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE
);
3. Comments Table:
CREATE TABLE comments (
  id INT AUTO_INCREMENT PRIMARY KEY,
  post id INT NOT NULL,
  user_id INT NOT NULL,
  comment TEXT NOT NULL,
  parent_comment_id INT DEFAULT NULL,
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
  FOREIGN KEY (post id) REFERENCES posts(id) ON DELETE CASCADE,
  FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE,
  FOREIGN KEY (parent_comment_id) REFERENCES comments(id) ON DELETE CASCADE
);
4. Reactions Table:
CREATE TABLE reactions (
  id INT AUTO_INCREMENT PRIMARY KEY,
  post_id INT NOT NULL,
  user_id INT NOT NULL,
  reaction_type ENUM('like', 'dislike') NOT NULL,
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
  FOREIGN KEY (post id) REFERENCES posts(id) ON DELETE CASCADE,
  FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE,
```

```
UNIQUE (post_id, user_id)
);
5. Admin Actions Table:
CREATE TABLE admin_actions (
  id INT AUTO_INCREMENT PRIMARY KEY,
  admin_id INT NOT NULL,
  action_type VARCHAR(255) NOT NULL,
  target_id INT,
  target_type ENUM('user', 'post', 'comment') NOT NULL,
  action_timestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
  FOREIGN KEY (admin_id) REFERENCES users(id) ON DELETE CASCADE
);
6. Header Images Table:
CREATE TABLE header_images (
  id INT AUTO_INCREMENT PRIMARY KEY,
  image_path VARCHAR(255) NOT NULL,
  uploaded_by INT NOT NULL,
  uploaded_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
  FOREIGN KEY (uploaded_by) REFERENCES users(id) ON DELETE CASCADE
);
```