



Universidad Autónoma
de Nuevo León



Facultad de Ciencias Físico
Matemáticas

Licenciatura en Multimedia y
Animación Digital

Programación Web II

Daniel Zambrano González

Jazmin Paola Rodríguez Lara

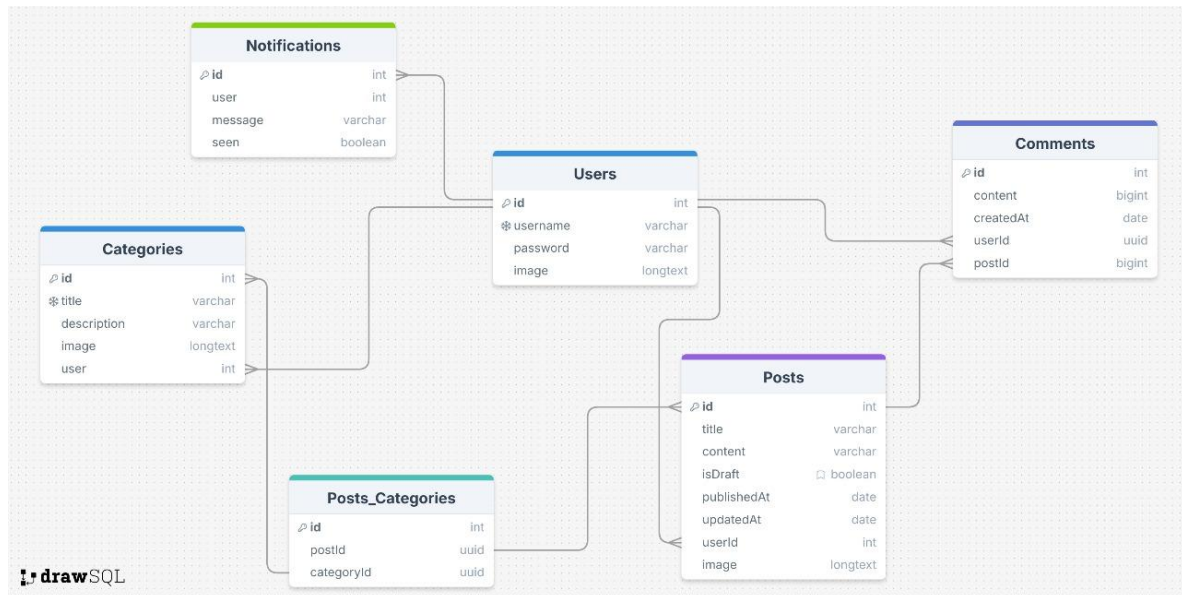
Jesús Ivan Martínez Dávila

Bárbara Sophía Baños Terrones

24 de Septiembre de 2025

Diseño técnico.

Tablas



Script de creación de tablas.

```
DROP DATABASE IF EXISTS bluebyte;
CREATE DATABASE bluebyte;
USE bluebyte;
```

```
CREATE TABLE users(
  id INT AUTO_INCREMENT PRIMARY KEY,
  username VARCHAR(50) NOT NULL,
  password VARCHAR(50) NOT NULL,
  image LONGTEXT NOT NULL
);
```

```
CREATE TABLE posts(
  id INT AUTO_INCREMENT PRIMARY KEY,
  title VARCHAR(255) NOT NULL,
  content TEXT NOT NULL,
  isDraft BOOLEAN DEFAULT FALSE,
  publishedAt DATETIME NOT NULL,
  updatedAt DATETIME,
  image LONGTEXT NOT NULL,
  userId INT NOT NULL,
```

```
  CONSTRAINT fk_posts_userId FOREIGN
  KEY(userId)
```

```
REFERENCES users(id)
);
```

```
CREATE TABLE categories(
  id INT AUTO_INCREMENT PRIMARY KEY,
  title VARCHAR(255) NOT NULL UNIQUE,
  description VARCHAR(255) NOT NULL,
  image LONGTEXT NOT NULL,
  userId INT NOT NULL,
```

```
  CONSTRAINT fk_categories_userId
  FOREIGN KEY(userId)
  REFERENCES users(id)
);
```

```
CREATE TABLE posts_categories(
  id INT AUTO_INCREMENT PRIMARY KEY,
  postId INT NOT NULL,
  categoryId INT NOT NULL,
```

```
  CONSTRAINT
  fk_posts_categories_postId FOREIGN
  KEY(postId)
```

```

REFERENCES posts(id),

CONSTRAINT
fk_posts_categories_categoryId FOREIGN
KEY(categoryId)
REFERENCES categories(id)
);

CREATE TABLE comments(
  id INT AUTO_INCREMENT PRIMARY KEY,
  content TEXT NOT NULL,
  createdAt DATETIME DEFAULT
CURRENT_TIMESTAMP,
  userId INT NOT NULL,
  postId INT NOT NULL,

  CONSTRAINT fk_comments_userId
FOREIGN KEY(userId)

```

```

REFERENCES users(id),

CONSTRAINT fk_comments_postId
FOREIGN KEY(postId)
REFERENCES posts(id)
);

CREATE TABLE notifications (
  id INT AUTO_INCREMENT PRIMARY KEY,
  message VARCHAR(255) NOT NULL,
  seen BOOLEAN DEFAULT FALSE,
  userId INT NOT NULL,

  CONSTRAINT fk_notifications_userId
FOREIGN KEY (userId)
REFERENCES users(id)
);

```

Script de creación de procedures.

```

DELIMITER //

CREATE PROCEDURE login(
  IN p_username VARCHAR(50),
  IN p_password VARCHAR(50)
)
BEGIN
  SELECT id, username, image FROM
users
  WHERE username = p_username AND
password = p_password
  LIMIT 1;
END //

CREATE PROCEDURE registerUser(
  IN p_username VARCHAR(50),
  IN p_password VARCHAR(50),
  IN p_image LONGTEXT
)
BEGIN

```

```

  IF EXISTS (SELECT 1 FROM users WHERE
username = p_username) THEN
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Username
already exists';
  ELSE
    INSERT INTO users(username,
password, image)
VALUES(p_username, p_password,
p_image);

    SELECT id, username, image FROM
users
    WHERE id = LAST_INSERT_ID();
  END IF;
END //

DELIMITER ;

```