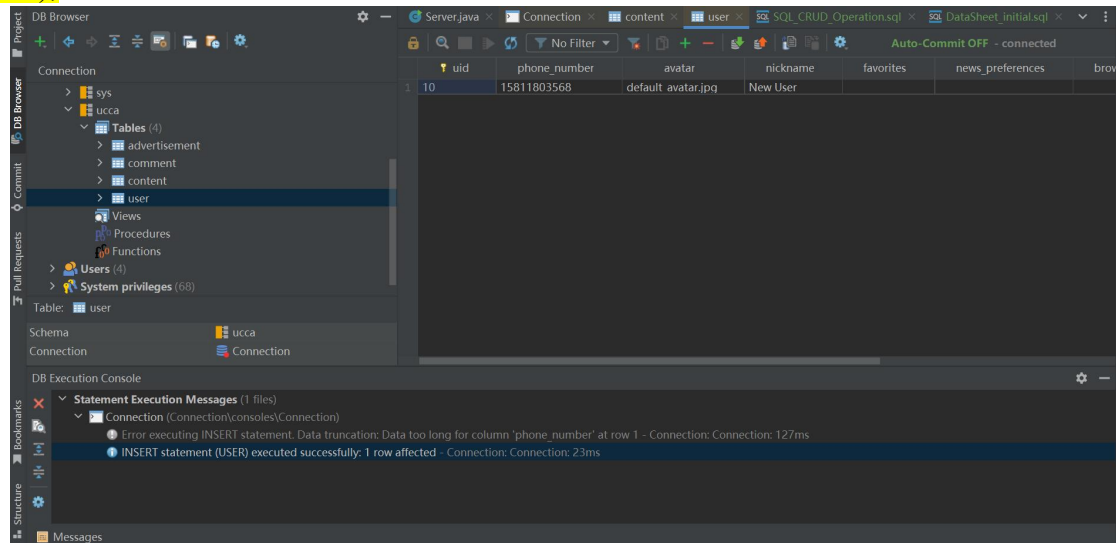# Task 1: SQL CRUD Operations

1.1. For the command input, please see the file: "SQL_CRUD_Operation.sql"

1.2. Output:

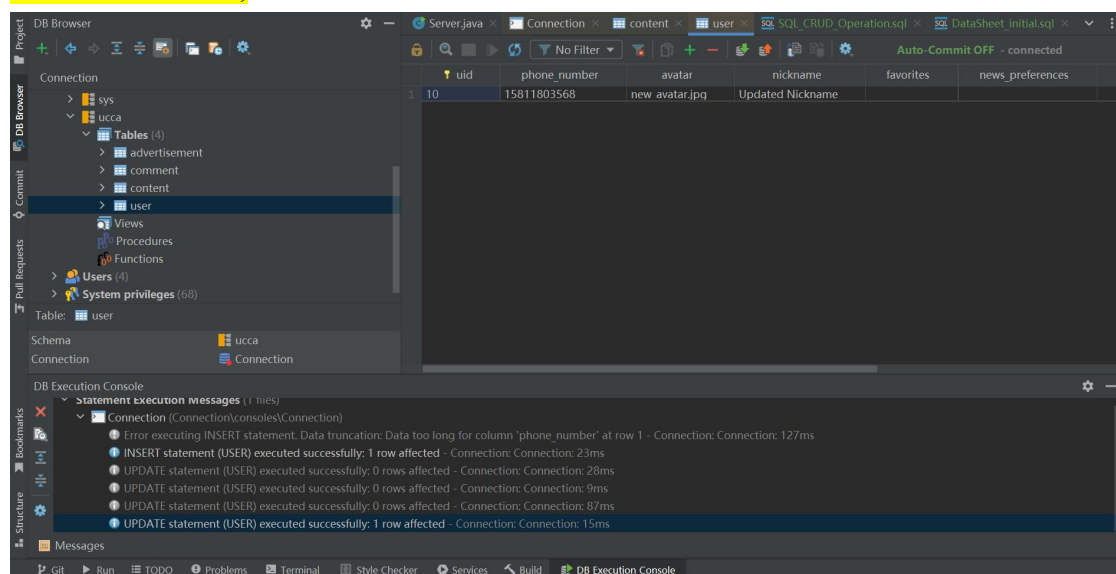--Create User by Email

INSERT INTO User (uid, phone_number, avatar, nickname, last_login_time)
VALUES (10/*DEFAULT*/, '15811803568', 'default_avatar.jpg', 'New User', NULL);
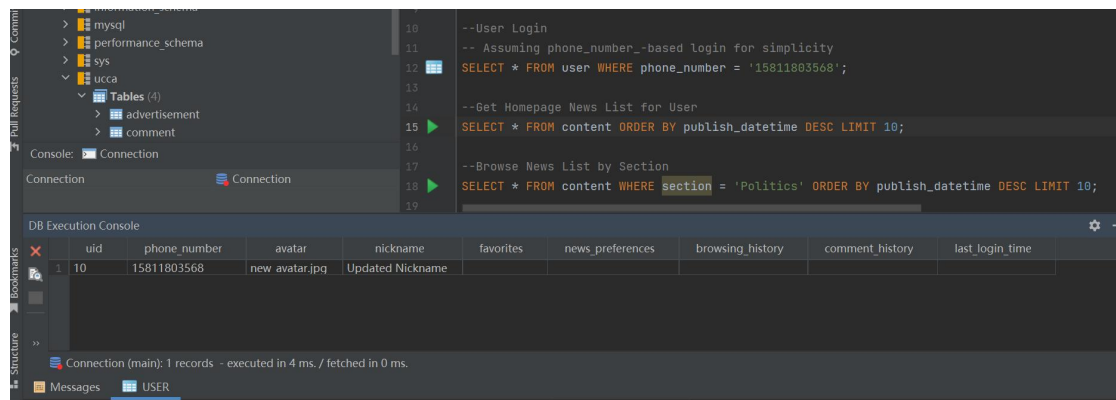

--Edit User Account Information

UPDATE User
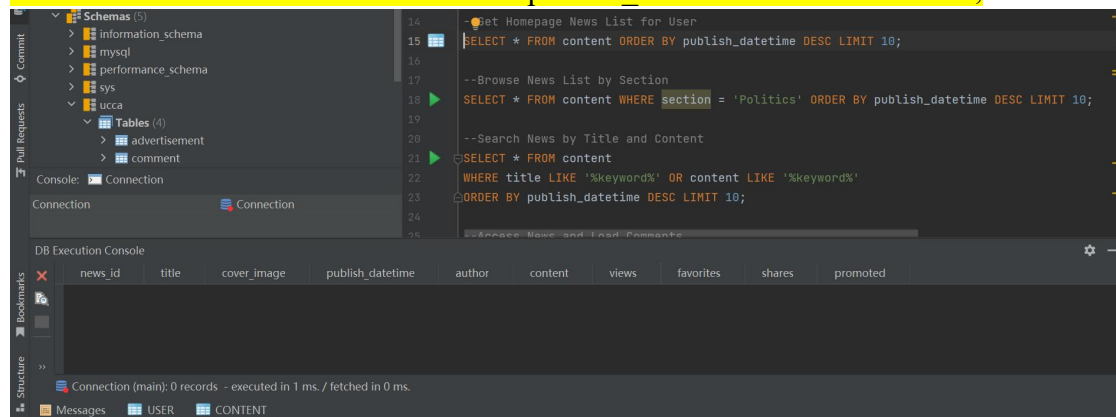SET nickname = 'Updated Nickname', avatar = 'new_avatar.jpg'
WHERE uid = 10;

--User Login
-- Assuming phone_number_-based login for simplicity
SELECT * FROM user WHERE phone_number = '15811803568';

--Get Homepage News List for User
SELECT * FROM content ORDER BY publish_datetime DESC LIMIT 10;

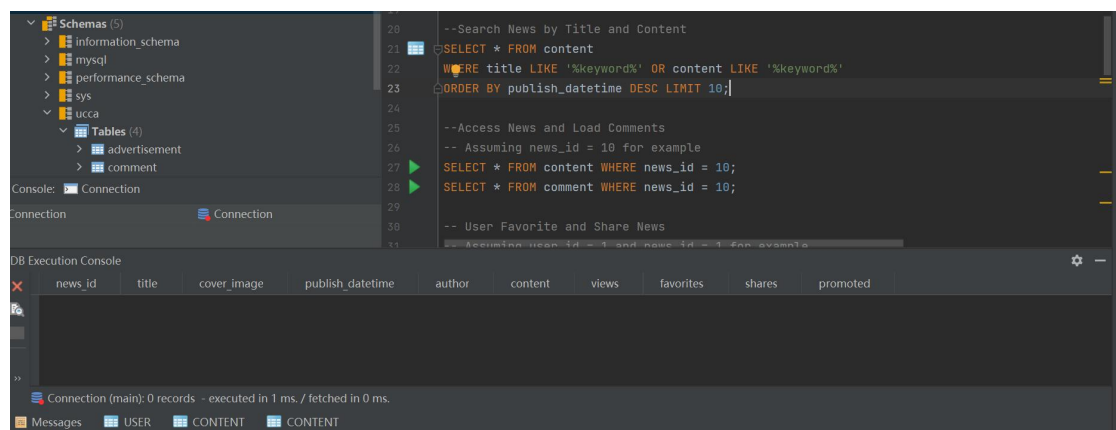--Search News by Title and Content
SELECT * FROM content
WHERE title LIKE '%keyword%' OR content LIKE '%keyword%'
ORDER BY publish_datetime DESC LIMIT 10;

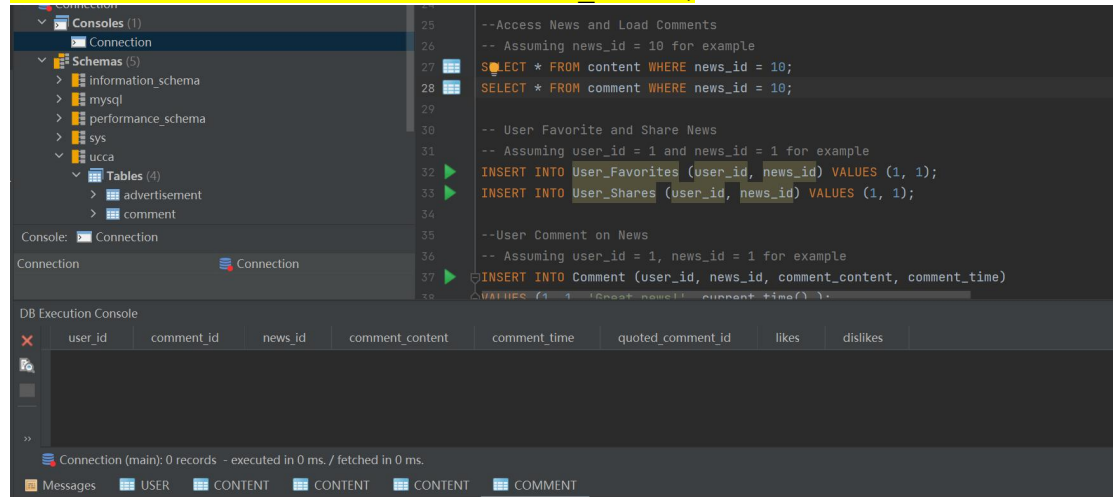--Access News and Load Comments
-- Assuming news_id = 10 for example
SELECT * FROM Content WHERE news_id = 10;
SELECT * FROM Comment WHERE news_id = 10;

--User Comment on News
-- Assuming user_id = 1, news_id = 1 for example
INSERT INTO Comment (user_id, news_id, comment_content, comment_time)
VALUES (1, 1, 'Great news!', current_time());

--User Like/Dislike Comment
-- Assuming comment_id = 1 for example
UPDATE Comment SET likes = likes + 1 WHERE comment_id = 1;
-- or
UPDATE Comment SET dislikes = dislikes + 1 WHERE comment_id = 1;

--User Delete Own Comment
-- Assuming user_id = 1 and comment_id = 1 for example
DELETE FROM Comment WHERE user_id = 1 AND comment_id = 1;

-- View User's Comment History
-- Assuming user_id = 1 for example
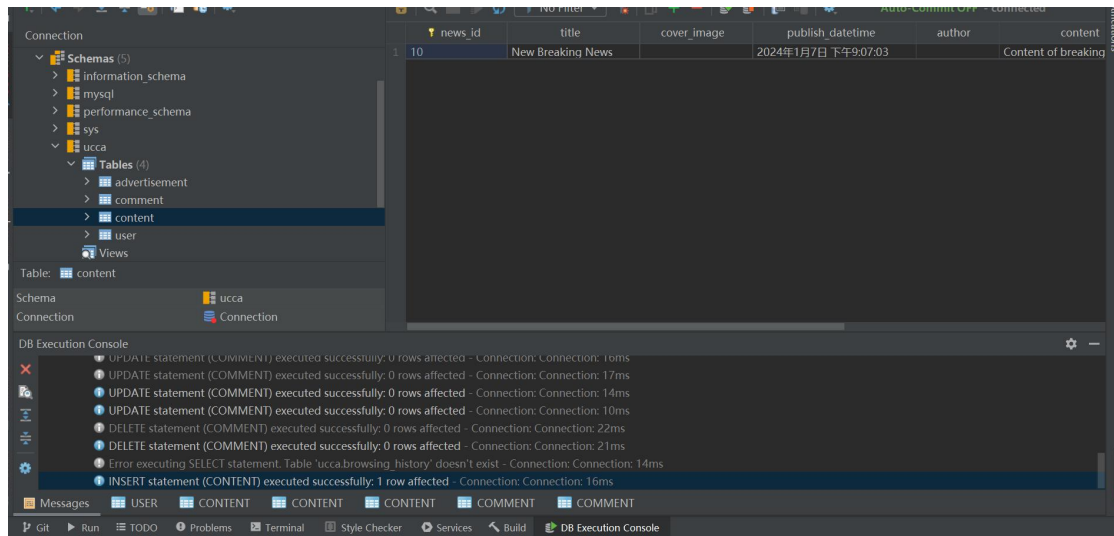SELECT * FROM Comment WHERE user_id = 1;

-- View User's Browsing History
-- Assuming user_id = 1 for example
SELECT * FROM Browsing_History WHERE user_id = 1;

-- (Simulated) Publish News
INSERT INTO Content (news_id, title, content, publish_datetime)

-- Get Ads by Content Type
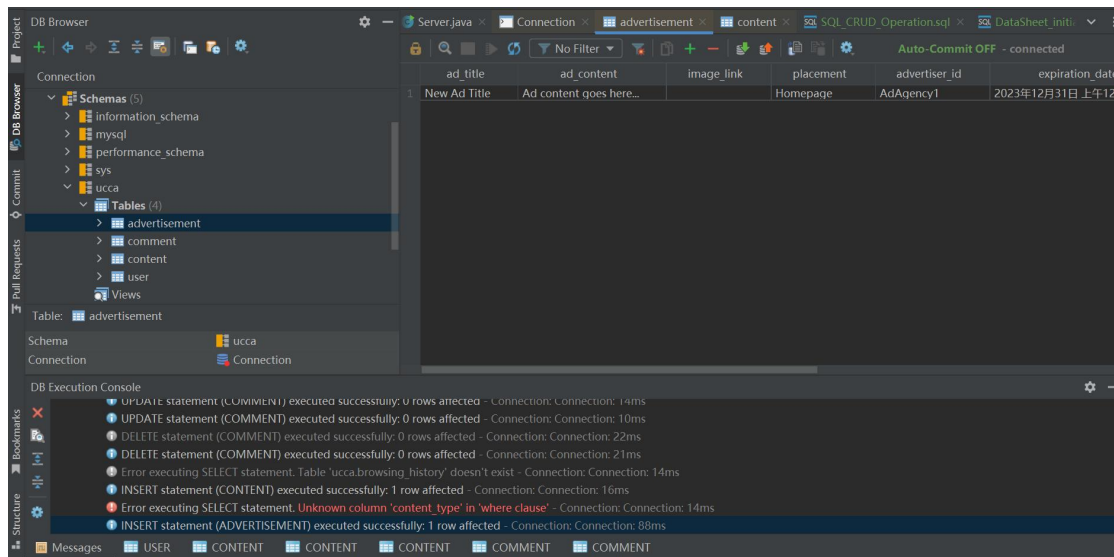-- Assuming content_type = 'Politics' for example
SELECT * FROM Advertisement WHERE content_type = 'Politics';

-- Publish Advertisement
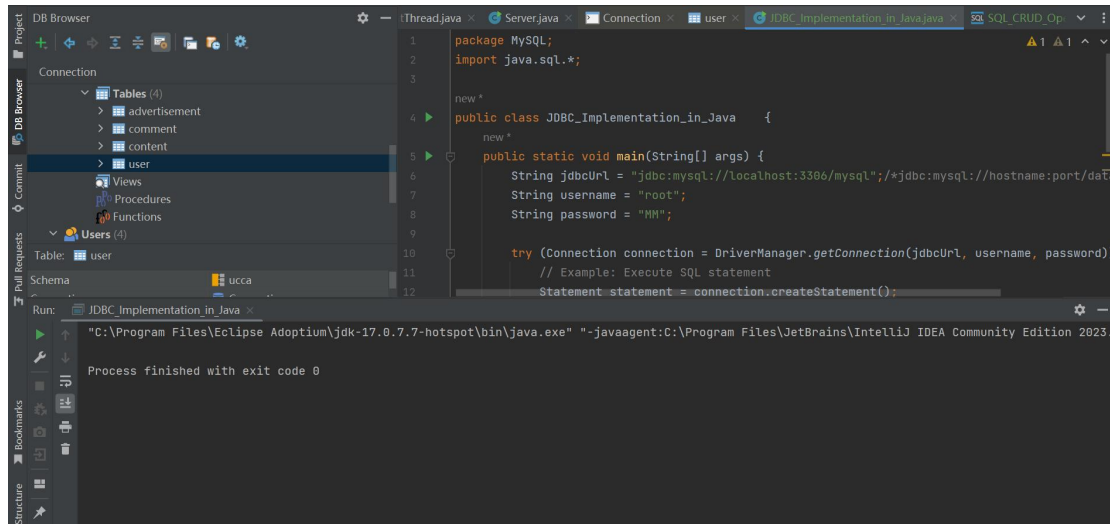
Task 2: JDBC Implementation in Java

2.1. Successfully Execute!

对于执行部分，因为数据库为空，暂时不予以展示(相关部分代码已注释)