### 1. \*\*Stored Procedure: `add\_user`\*\*

-- \*\*Description\*\*: Adds a new user to the `Users` table with validation for the subscription type.

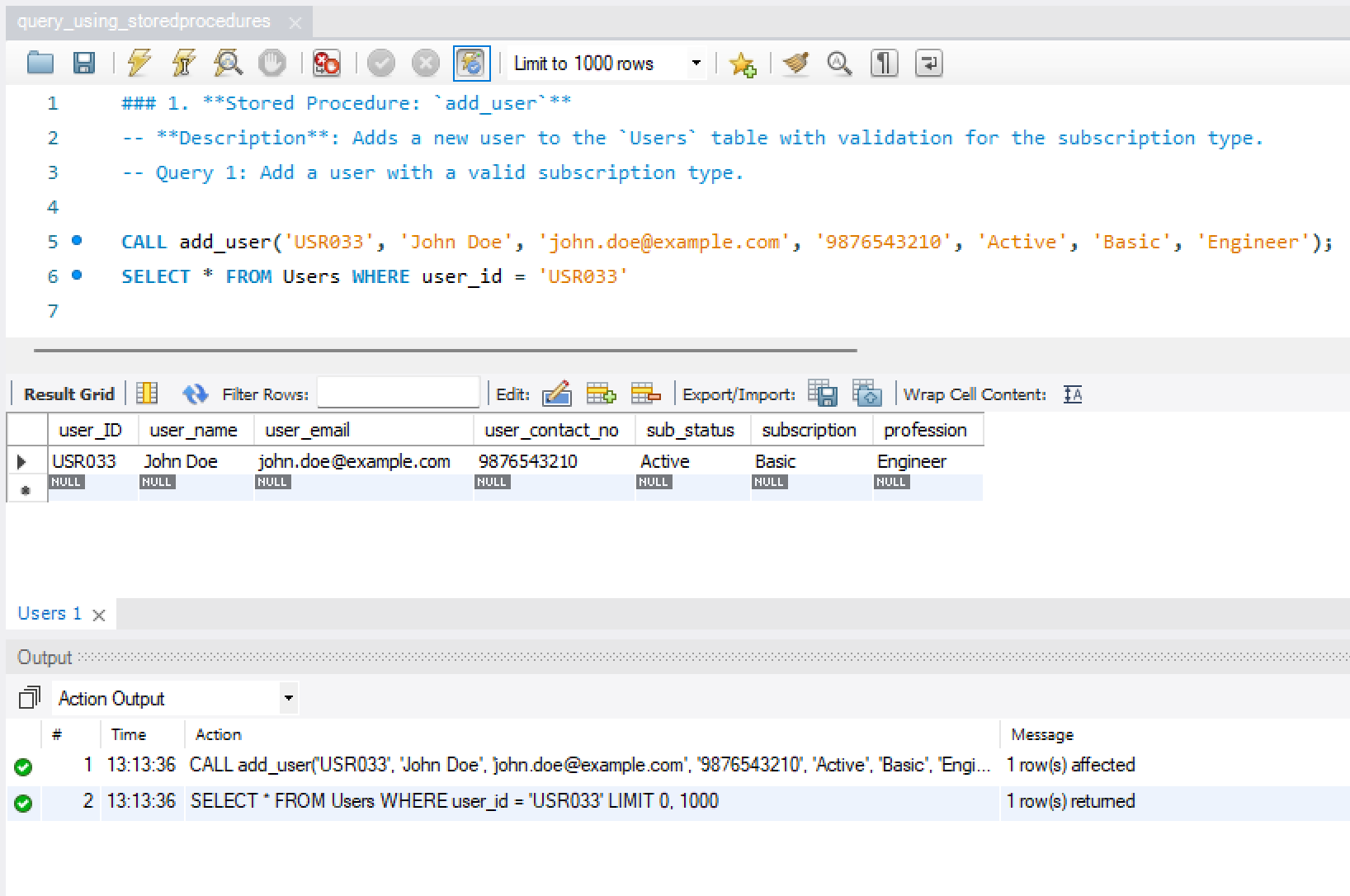
-- Query 1: Add a user with a valid subscription type.

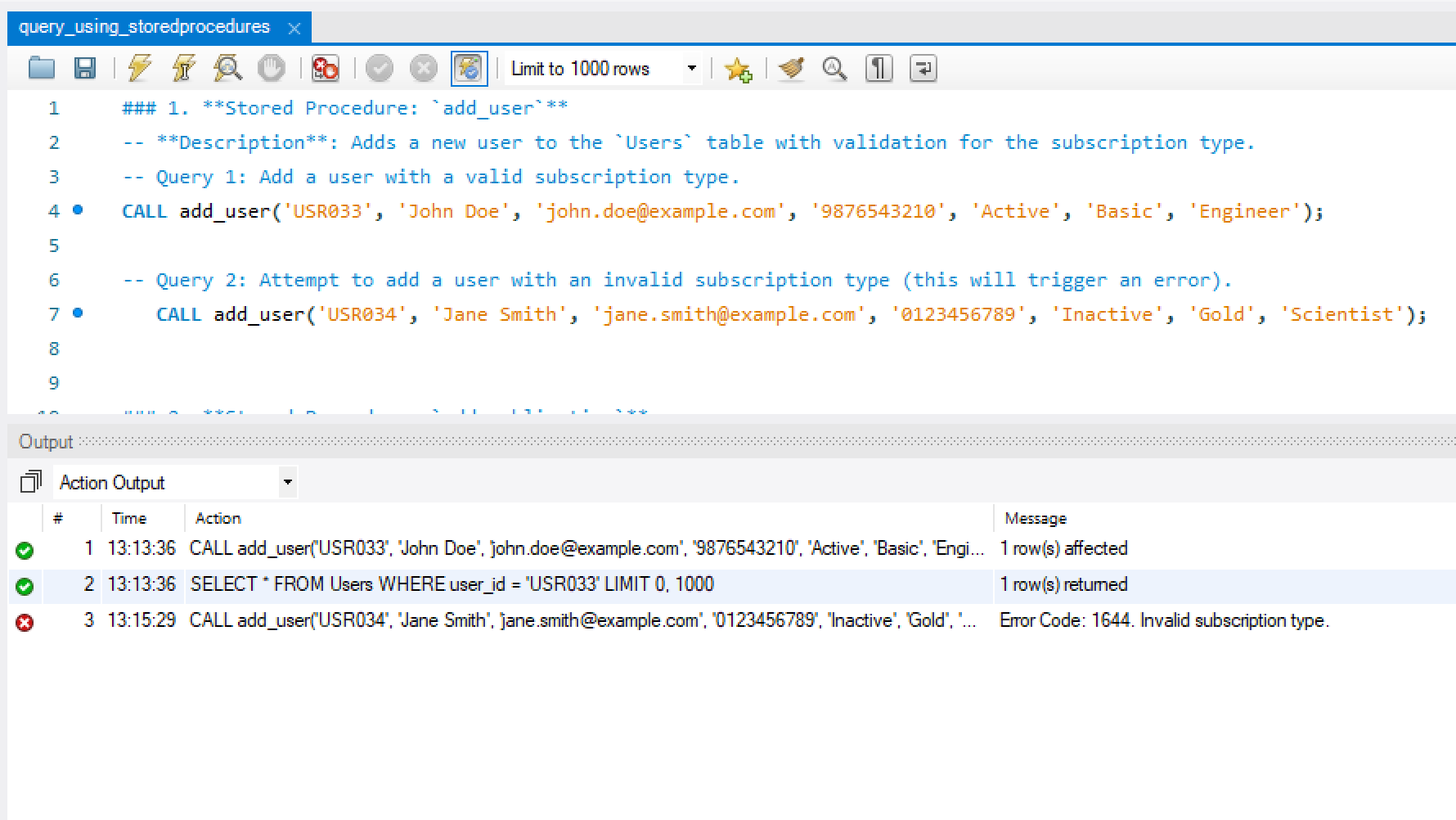
CALL add\_user('USR033', 'John Doe', 'john.doe@example.com', '9876543210', 'Active', 'Basic', 'Engineer');

SELECT \* FROM Users WHERE user\_id = 'USR033';

-- Query 2: Attempt to add a user with an invalid subscription type (this will trigger an error).

CALL add\_user('USR034', 'Jane Smith', 'jane.smith@example.com', '0123456789', 'Inactive', 'Gold', 'Scientist');





### 2. \*\*Stored Procedure: `add\_publication`\*\*

-- \*\*Description\*\*: Adds a new publication to the `Publications` table and handles missing publication date by setting it to the current date.

-- Query 1: Add a publication with a specified publication date.

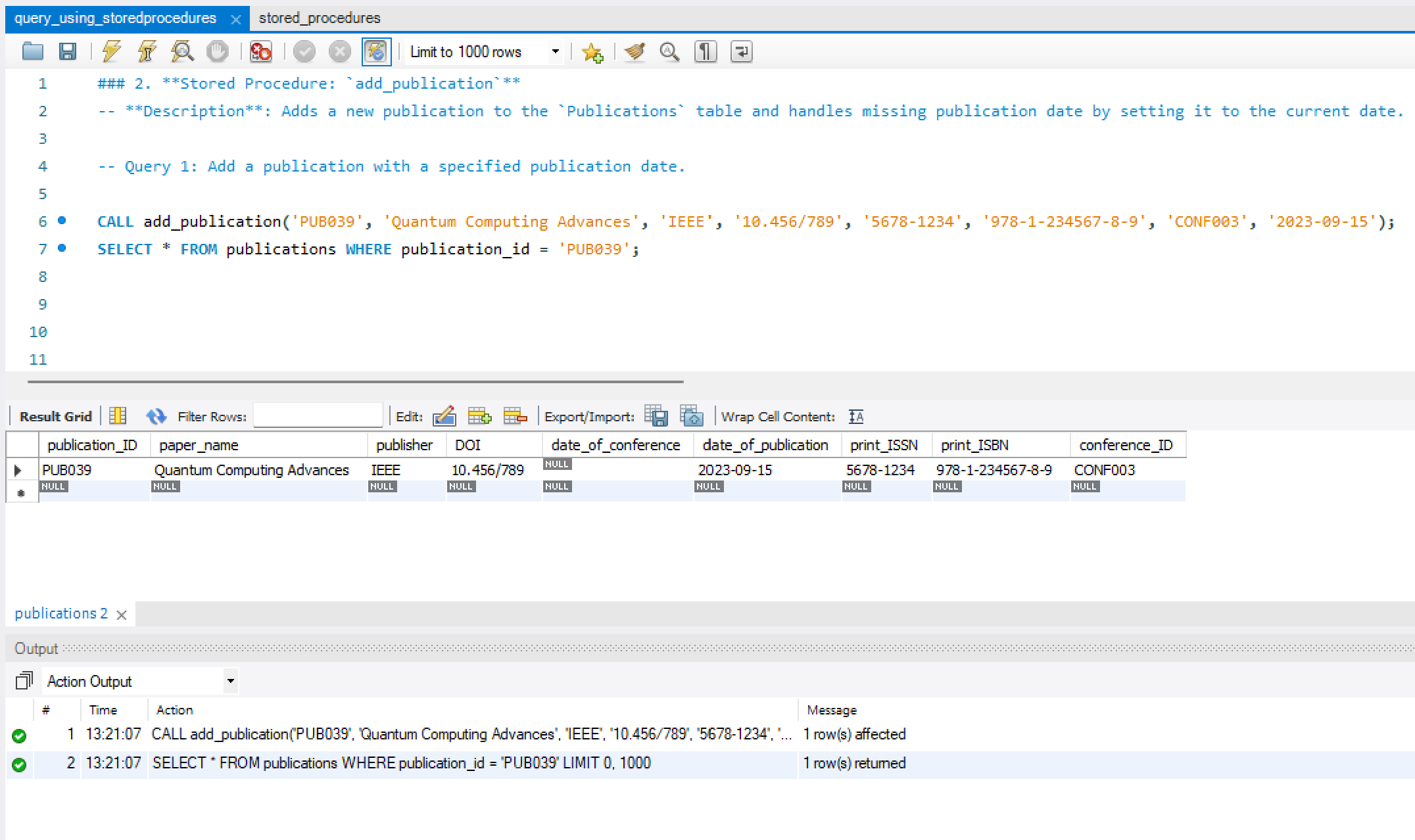
CALL add\_publication('PUB039', 'Quantum Computing Advances', 'IEEE', '10.456/789', '5678-1234', '978-1-234567-8-9', 'CONF003', '2023-09-15');

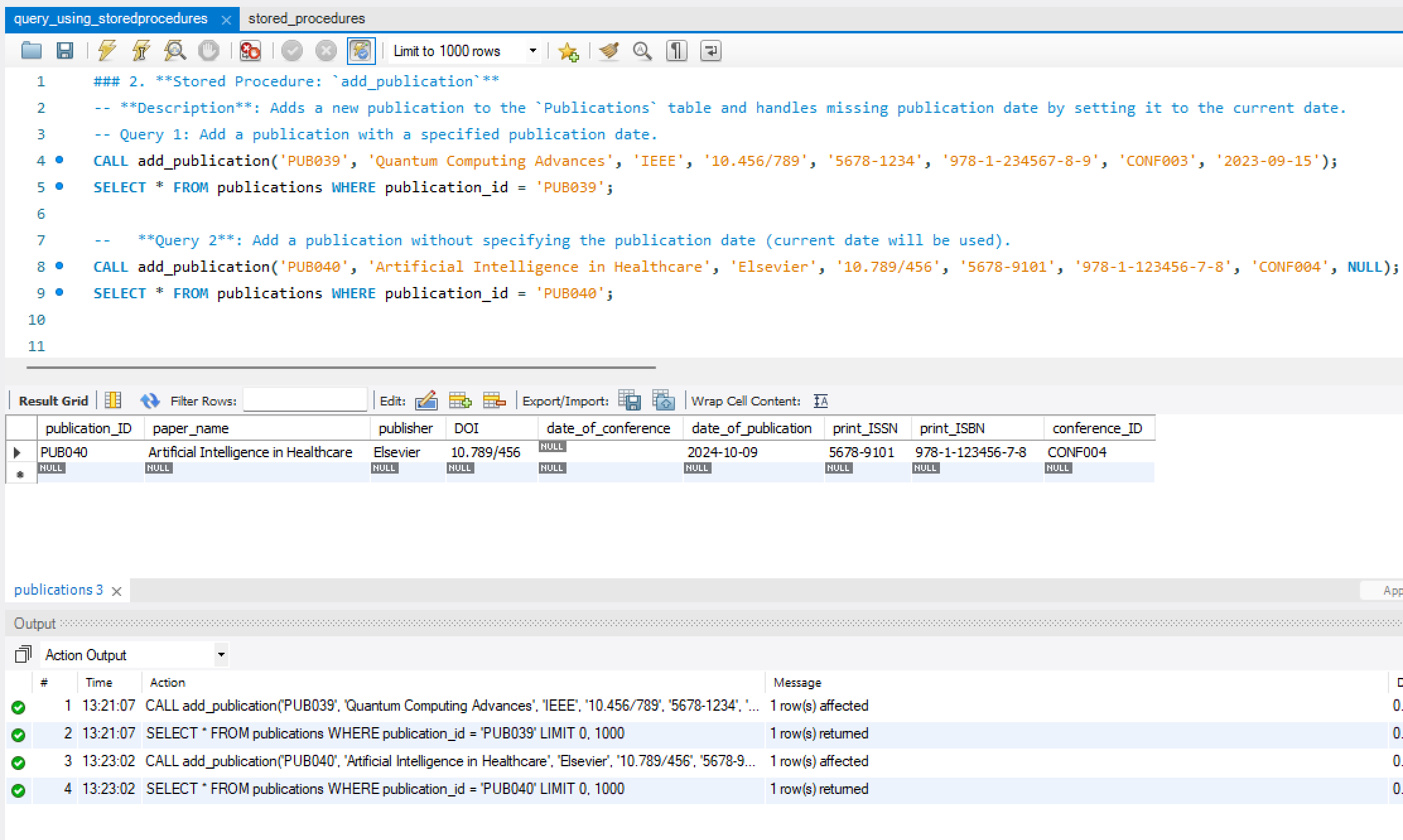
SELECT \* FROM publications WHERE publication\_id = 'PUB039';

-- \*\*Query 2\*\*: Add a publication without specifying the publication date (current date will be used).

CALL add\_publication('PUB040', 'Artificial Intelligence in Healthcare', 'Elsevier', '10.789/456', '5678-9101', '978-1-123456-7-8', 'CONF004', NULL);

SELECT \* FROM publications WHERE publication\_id = 'PUB040';





### 3. \*\*Stored Procedure: `get\_popular\_keywords`\*\*

-- \*\*Description\*\*: Retrieves keywords that have been associated with more than a certain number of publications.

-- \*\*Query 1\*\*: Get keywords associated with more than 3 publications.

CALL get\_popular\_keywords(2);

A screenshot of a computer

Description automatically generated

### 4. \*\*Stored Procedure: `get\_conference\_publications`\*\*

-- \*\*Description\*\*: Retrieves all publications for a specified conference.

-- Query: Get publications for a specific conference.

CALL get\_conference\_publications('CONF001');

