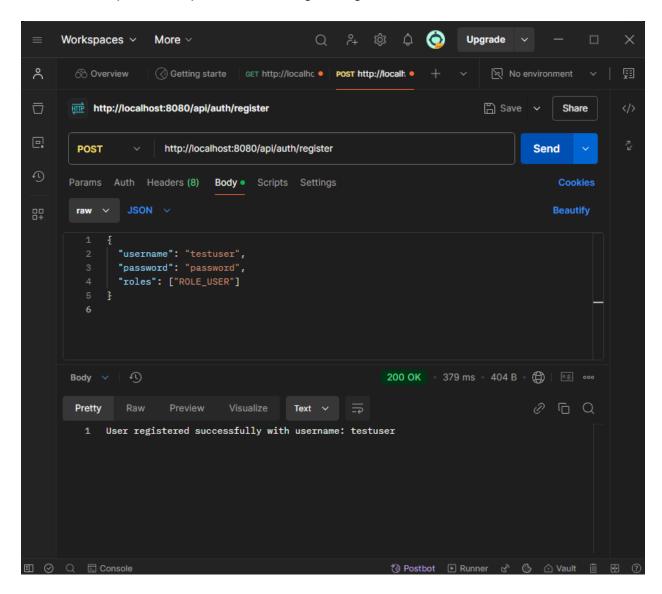
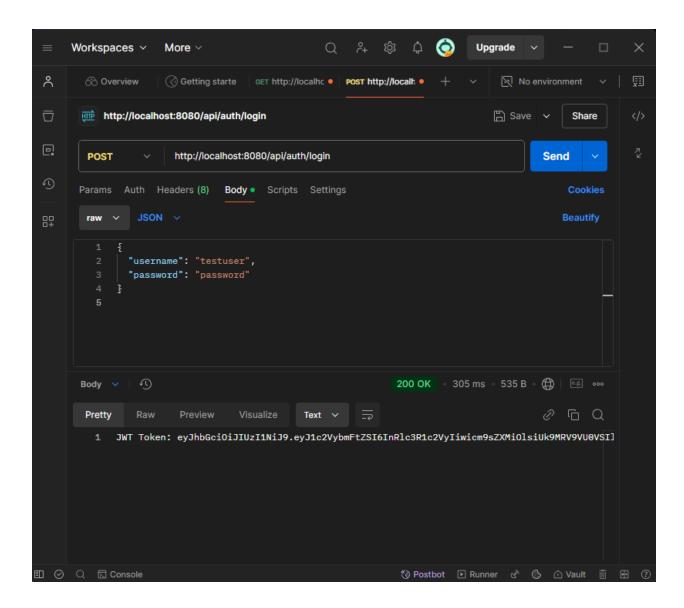
User Registration (POST /api/auth/register):

- The user was successfully created in the database.
- The response was positive confirming the registration.



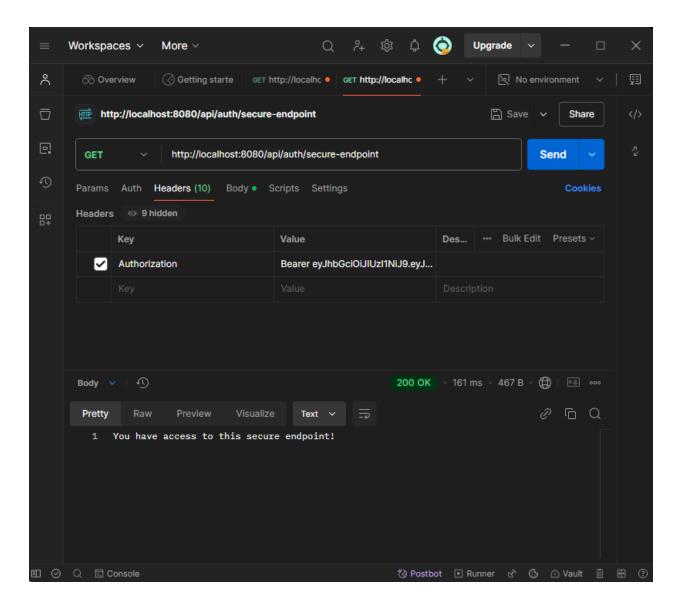
User Login (POST /api/auth/login):

You received a valid JWT token in response.



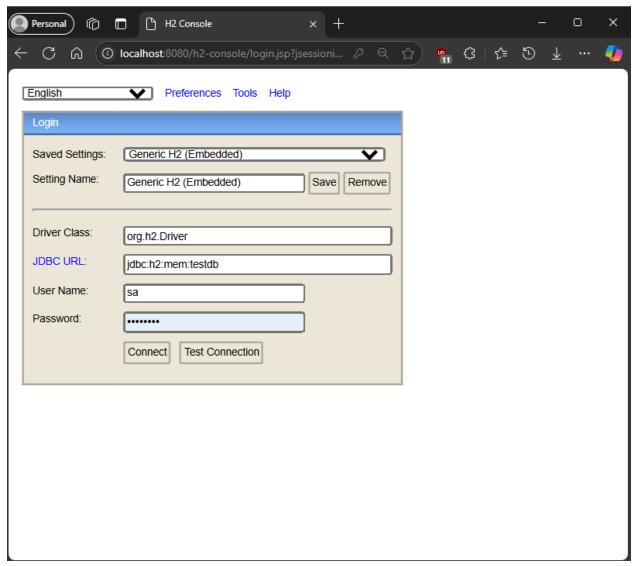
Access Secure Endpoint (GET /api/auth/secure-endpoint):

 The secure endpoint was successfully accessed using the token with the correct Authorization header.

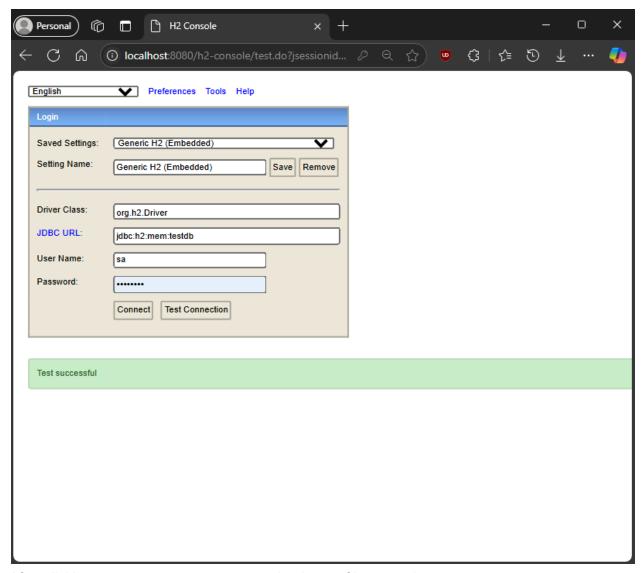


H2 Database:

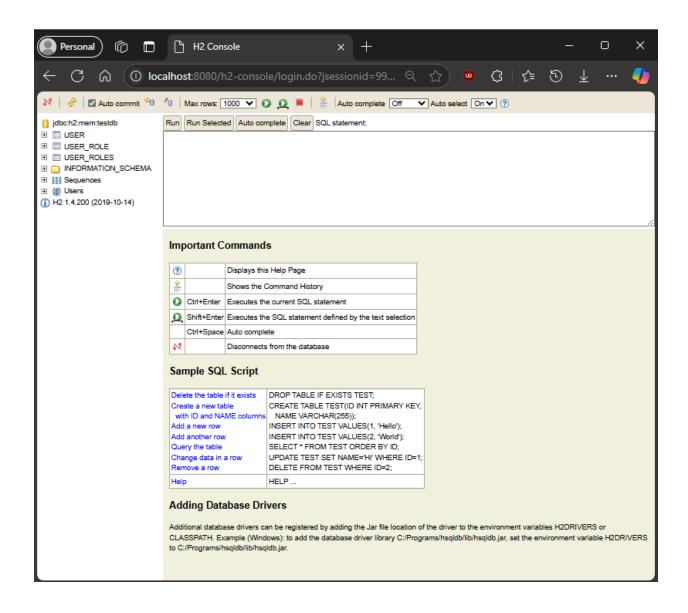
- The user and roles are correctly stored in the database.
- You are able to view data from USER and user_roles tables.



Test connection :test successful

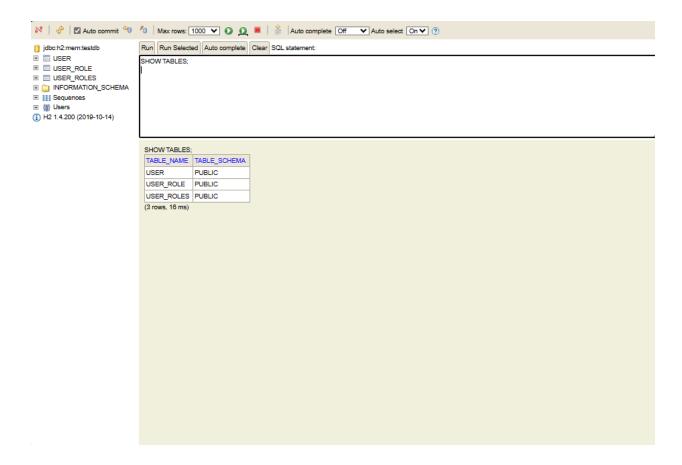


After clicking connect we can now see a database of h2 console



View Databases: Once connected, you can query your existing tables using SQL commands such as:

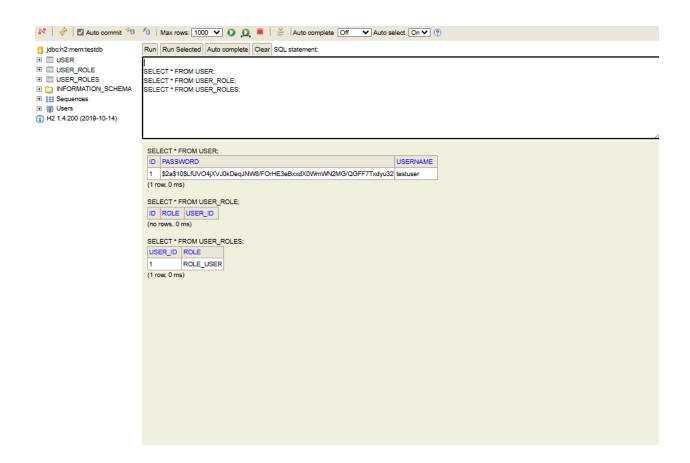
SHOW TABLES;



1. View Data in the USER, USER_ROLE and USER_ROLES Table:

To see the data stored in the tables, you can run the following SQL query:

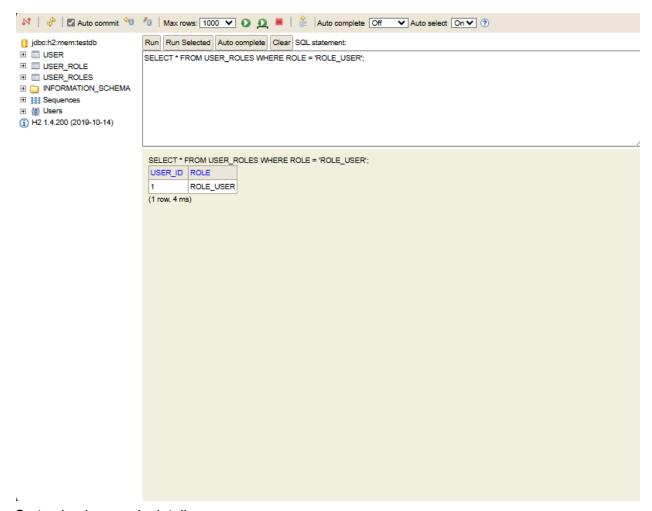
SELECT * FROM USER; SELECT * FROM USER_ROLE; SELECT * FROM USER_ROLES;



4. Check for Specific Data (Optional):

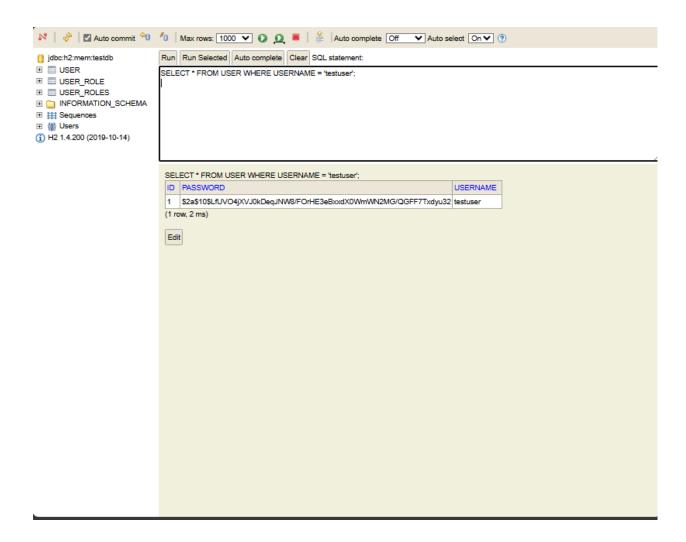
If you'd like to see specific information, for example, the users with a particular role, you could query:

SELECT * FROM USER_ROLES WHERE ROLE = 'ROLE_USER';



Or, to check a user's details:

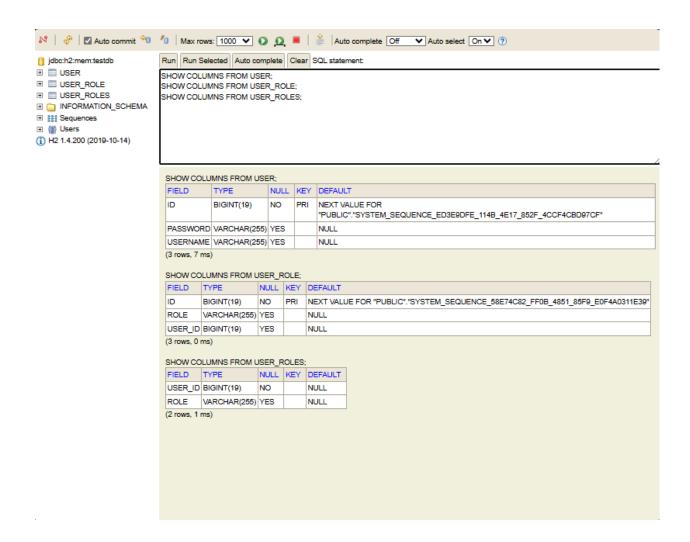
SELECT * FROM USER WHERE USERNAME = 'testuser';



5. Additional Information (Optional):

If you would like to understand the table schema or the structure of the tables (columns, types, etc.), you can describe the tables:

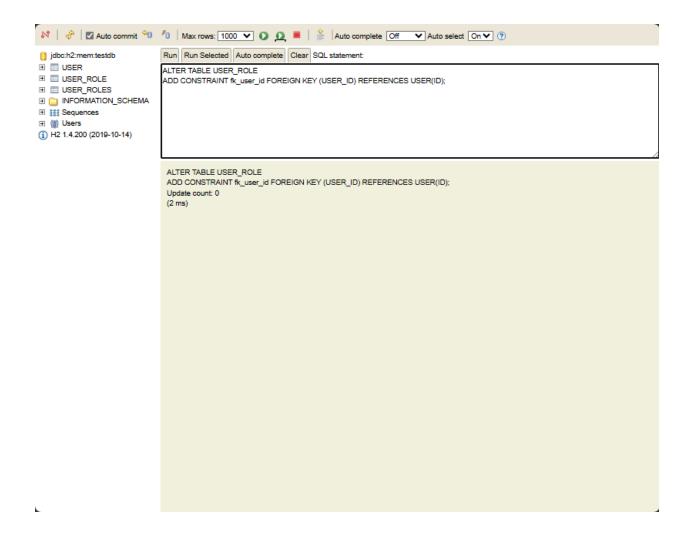
SHOW COLUMNS FROM USER; SHOW COLUMNS FROM USER_ROLE; SHOW COLUMNS FROM USER_ROLES;



ou can add a foreign key constraint like this:

1. To add a foreign key constraint for USER_ID in USER_ROLE:

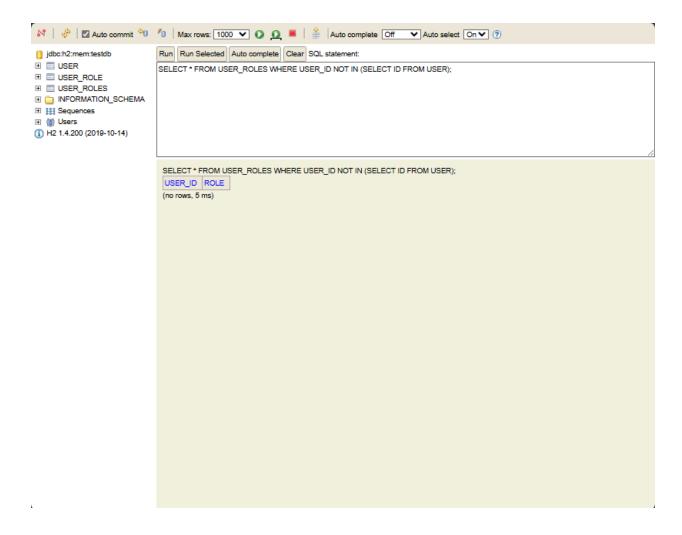
ALTER TABLE USER_ROLE
ADD CONSTRAINT fk_user_id FOREIGN KEY (USER_ID) REFERENCES USER(ID);



Check for Orphaned Data

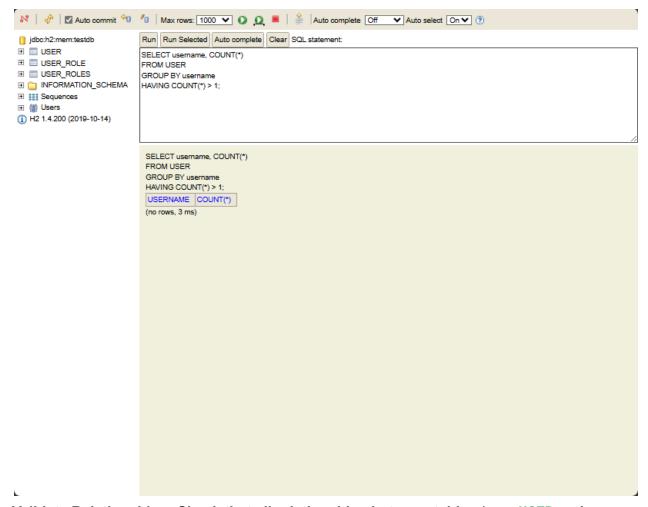
If you have inserted data into the USER_ROLES table without corresponding data in the USER table (or vice versa), the foreign key constraint will fail. You should verify if any orphaned records exist in the USER_ROLES table:

SELECT * FROM USER_ROLES WHERE USER_ID NOT IN (SELECT ID FROM USER);



Check for Duplicate Records: You should also ensure that no duplicate user records exist in the USER table.

SELECT username, COUNT(*) FROM USER GROUP BY username HAVING COUNT(*) > 1;



Validate Relationships: Check that all relationships between tables (e.g., USER and USER_ROLES) are properly set with no mismatches.

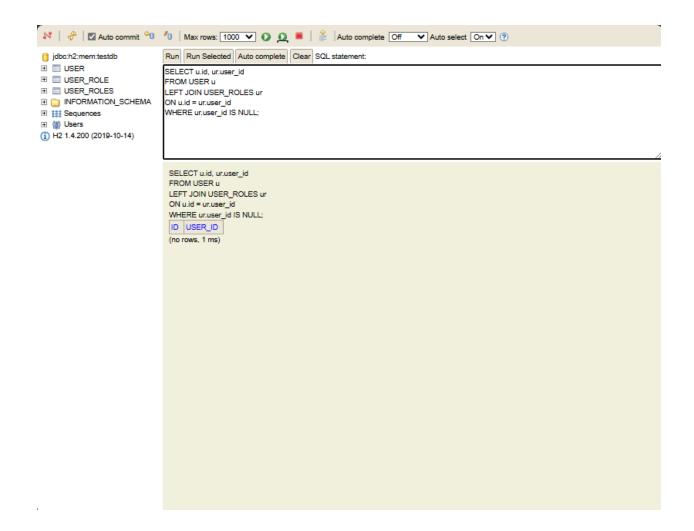
SELECT u.id, ur.user_id

FROM USER u

LEFT JOIN USER_ROLES ur

ON u.id = ur.user_id

WHERE ur.user_id IS NULL;

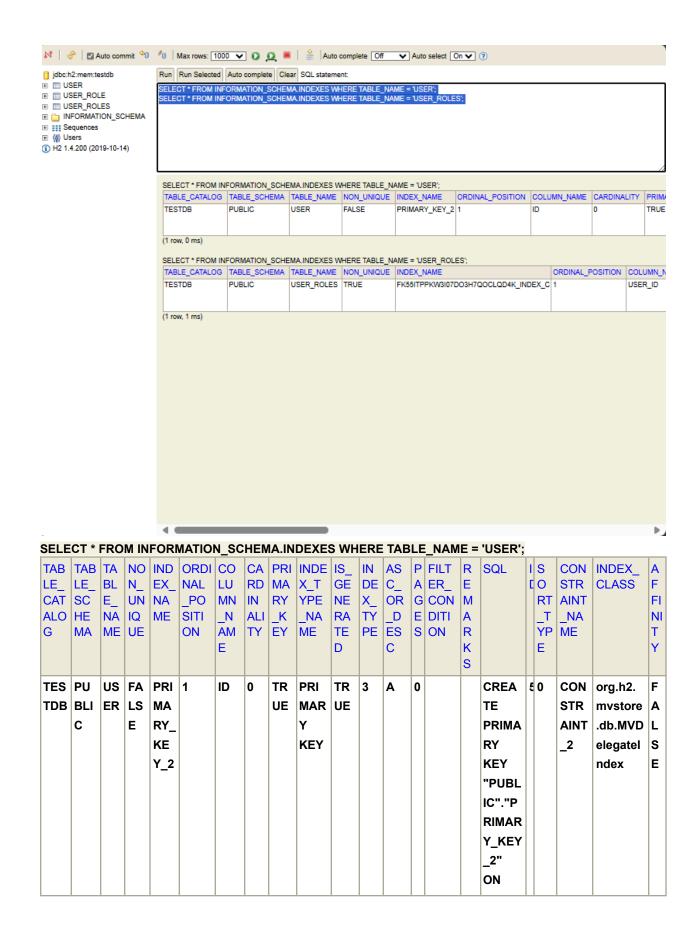


Checking Existing Indexes

The error SHOW INDEXES FROM USER; occurs because the SHOW INDEXES statement isn't supported in H2 SQL. Instead, you can use the following query to list the indexes on the table in H2:

SELECT * FROM INFORMATION_SCHEMA.INDEXES WHERE TABLE_NAME = 'USER'; SELECT * FROM INFORMATION_SCHEMA.INDEXES WHERE TABLE_NAME = 'USER_ROLES';

This query will return information about all the indexes present on the USER and USER_ROLES tables.



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		SER"(
		"ID")

(1 row, 0 ms)

SELECT * FROM INFORMATION_SCHEMA.INDEXES WHERE TABLE_NAME = 'USER_ROLES';

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(1 row, 1 ms)