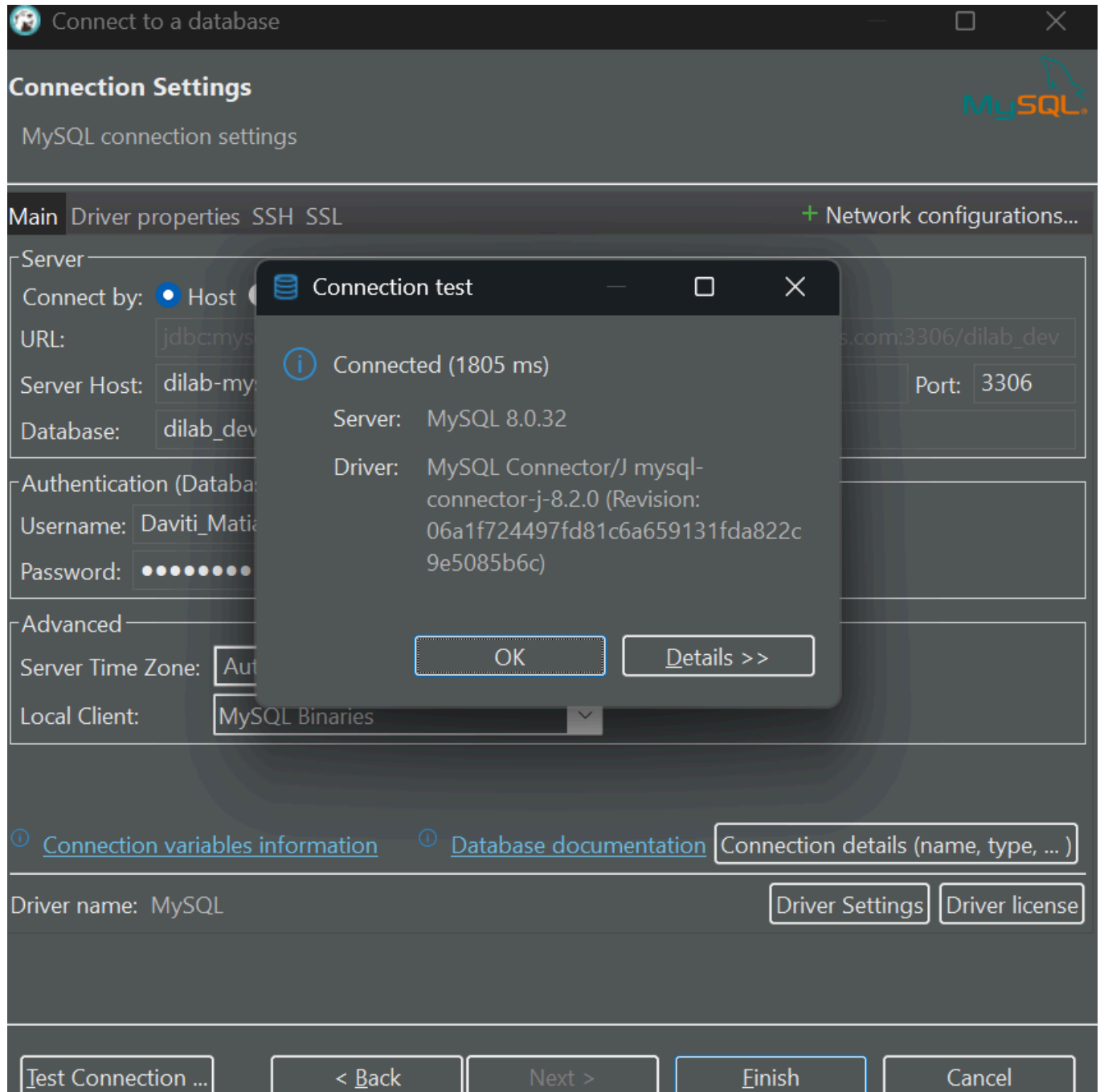


# Task 1.

to start from the beginning at first I opened DBeaver and in new connection segment I chose MySQL then write our localhost, password ,database name and user name.



after that I created my user and my database with the query like this:

```
CREATE USER 'Daviti_Matiashvili'@'%' IDENTIFIED BY '12345678';
GRANT ALL PRIVILEGES ON dilab_dev.* TO 'Daviti_Matiashvili'@'%';
GRANT ALL PRIVILEGES ON `Daviti_matiashvili`.* TO 'Daviti_Matiashvili'@'%';
FLUSH PRIVILEGES;

create database if not exists Daviti_matiashvili

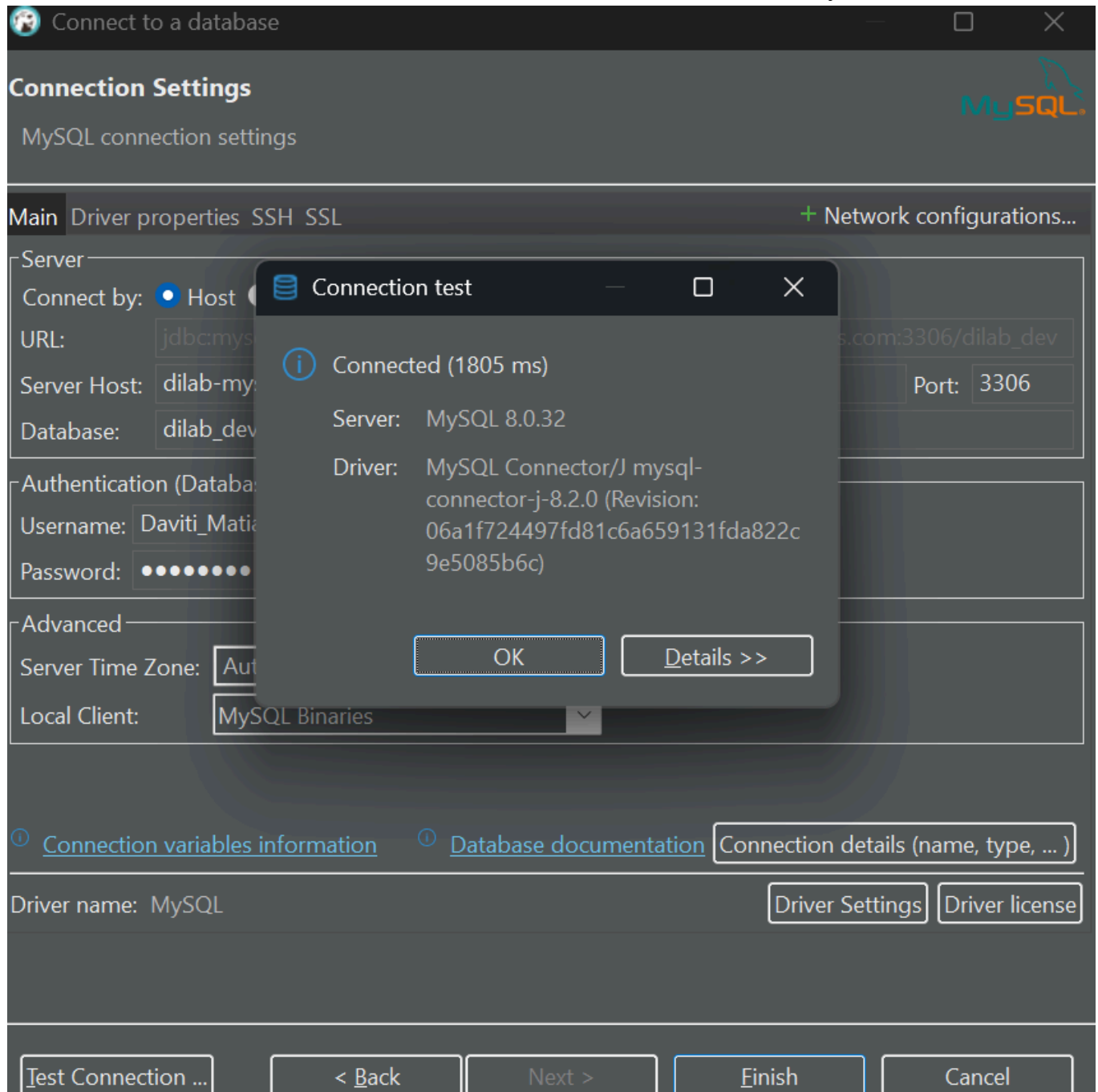
SHOW GRANTS FOR 'Daviti_Matiashvili'@'%';
```

and gave all the privileges to dilab\_dev and my newly created databases.

this is how the grants look like:

```
A-Z Grants for Daviti_Matiashvili@%
GRANT USAGE ON *.* TO `Daviti_Matiashvili`@`%`
GRANT ALL PRIVILEGES ON `Daviti_matiashvili`.* TO `Daviti_Matiashvili`@`%`
GRANT ALL PRIVILEGES ON `dilab_dev`.* TO `Daviti_Matiashvili`@`%`
```

after this I disconnected from the admin user and tried to connect with my user and it worked:



and after that I did all other subtasks in the database:

```
create schema if not exists Daviti_matiashvili

select user();

create table if not exists Daviti_matiashvili.homework(
    homework_id serial,
    homework_subject varchar(30),
    grade decimal(5,2),
    constraint homework_pk primary key(homework_id)
);

CREATE OR REPLACE VIEW Daviti_matiashvili.homeworkview AS(
SELECT
    h.homework_subject AS homework,
    h.grade AS max_grade
FROM Daviti_matiashvili.homework h);
```

```

CREATE OR REPLACE VIEW Daviti_matiashvili.homeworkview AS(
SELECT
    h.homework_subject AS homework,
    h.grade AS max_grade
FROM Daviti_matiashvili.homework h);

-- procedure to validate correct grade for the students.
DELIMITER $$

-- Drop the procedure if it already exists
DROP PROCEDURE IF EXISTS daviti_matiashvili.add_homework $$

-- Create the procedure
CREATE PROCEDURE daviti_matiashvili.add_homework (
    IN p_homework_subject VARCHAR(255),
    IN p_grade DECIMAL(5,2)
)
BEGIN
    IF p_grade < 0 OR p_grade > 100 THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Grade must be between 0 and 100';
    ELSE
        INSERT INTO daviti_matiashvili.homework (homework_subject, grade)
        VALUES (p_homework_subject, p_grade);
    END IF;
END $$

DELIMITER ;

```

the main difference between postgresSQL procedure and mySQL procedure for me was that how we can make these procedure rerunnable. in postgresSQL we can simply write create or replace procedure but it don't work in mySQL as I know. these function basically checks if inserted grade is between 0 and 100. we can create before trigger after that and execute this function for every row. that way only correct grades will be inserted in this table.

## task 2.



Pavel Kalenik 12:20 PM Edited

**Students** The current version of RDS instance does not support Query Editor. Just skip this task

I really wanted to write this task but it was impossible :(

## task 3

I will start from the aws console how to create table and how to delete it.

at first we search dynamoDB->Tables->create table, then after that we specify table name and

its partition and sort key. after that it is created with no problem.

after that when table is created we click this table and after that choose explore table items. and after that we will go we can insert the columns and data there, but partition key shouldn't be empty. after that rows and columns are inserted in table.

Completed · Items returned: 0 · Items scanned: 0 · Efficiency: 100% · RCUs consumed: 2

Table: Daviti\_Matiashvili\_Order\_Table - Items returned (2)

Actions

Create item

Scan started on April 02, 2025, 20:07:08

< 1 >

<input type="checkbox"/>	Order_id (String)	Customer_id (String)	amount
<input type="checkbox"/>	'2'	'2'	25
<input type="checkbox"/>	'1'	'2'	20

after that we can simply delete it.

now I want to talk about creating table using aws cli. I tried so many times but I was not able to do this part. I searched everything and asked in the chat also but I didn't get any answer.

```
C:\Users\matia>aws configure sso --profile students-role
SSO session name [profile user-role-260586643565]:
The only AWS account available to you is: 260586643565
Using the account ID 260586643565
The only role available to you is: User
Using the role name "User"
Default client Region [eu-central-1]:
CLI default output format (json if not specified) [None]:
To use this profile, specify the profile name using --profile, as shown:

aws sts get-caller-identity --profile students-role

C:\Users\matia>aws sso login --profile students-role
Attempting to automatically open the SSO authorization page in your default browser.
If the browser does not open or you wish to use a different device to authorize this request, open the following URL:

https://oidc.us-east-1.amazonaws.com/authorize?response_type=code&client_id=3o2AV5SmsY9pMvTsEJk6YnVzLWVhc3QtMQ&redirect_uri=http%3A%2F%2F127.0.0.1%3A61915%2Foauth%2Fcallback&state=92747ab1-a7ea-46b2-9cbd-f29d17ca7ef7&code_challenge_method=S256&scopes=sso%3Aaccount%3Aaccess&code_challenge=CYM4SL-0DkqF21_LWHULoG5jay2h77D7V_YIJxg1Aw
Successfully logged into Start URL: https://epam.awsapps.com/start/

C:\Users\matia>aws dynamodb create-table --table-name Daviti_Matiashvili_Orders --attribute-definitions AttributeName=OrderID,AttributeType=S AttributeName=CustomerID,AttributeType=S --key-schema AttributeName=OrderID,KeyType=HASH AttributeName=CustomerID,KeyType=RANGE --billing-mode PAY_PER_REQUEST --region eu-central-1 --profile students-role
Error when retrieving token from sso: Token has expired and refresh failed
```

I rewrote my config file also and restart my credentials but it still gave me this error and since I don't have much time left to do this task.

table creation script is shown in the screenshot . after that we can insert rows using this:

```
aws dynamodb put-item --table-name Daviti_Matiashvili_Orders --item  
'{"OrderID": {"S": "1"}, "CustomerID": {"S": "C001"}, "OrderDate": {"S":  
"2023-01-01"}, "TotalAmount": {"N": "150"}}' --profile students-role
```

and we can just copy this and insert rows 20 times.

this is how we can retrieve 5 rows:

```
aws dynamodb scan --table-name Daviti_Matiashvili_Orders --profile students-  
role --limit 5
```

and this is how we can delete it

```
aws dynamodb delete-item \  
--table-name Daviti_Matiashvili_Orders \  
--key '{"OrderID": {"S": "1"}, "CustomerID": {"S": "C001"}}' \  
--profile students-role
```

since I couldn't create the table I just searched all of these in the google and didn't test it by myself. If maybe you can tell me why it gives me this error I will fix it tomorrow if it is possible, but I really tried my best, since I already missed hw3 I wanted to write this homework correctly.