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Endterm - Akhmetova - Fri 14-15

Time left: 0 h 47 min. 29 sec.

Question 20/20 (1 p.)

What are the types of triggers that can be defined in PostgreSQL?

- DURING and FOLLOWING
- BEFORE and AFTER
- PRIMARY and SECONDARY
- START and END

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Question 20

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Question 19/20 (1 p.)

A view named 'DepartmentView' is created with the following SQL command:

```
CREATE VIEW DepartmentView AS
SELECT Employees.Name, Departments.DepartmentName
FROM Employees
JOIN Departments ON Employees.Department = Departments.DepartmentName;
```

Can this view be updated to change an employee's department?

No, views cannot be updated under any circumstances.

Yes, because the view is created using a simple JOIN.

No, because the view is based on a JOIN of two tables.

Yes, but only if the department exists in the Departments table.

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Question 18/20 (1 p.)

What is the key difference between LOCAL CHECK OPTION and CASCDED CHECK OPTION when creating views?

- CASCDED CHECK OPTION is used for materialized views, while LOCAL CHECK OPTION is used for standard views.
- LOCAL CHECK OPTION applies the check only to the current view, whereas CASCDED CHECK OPTION applies it to all underlying views.
- There is no difference; both options serve the same purpose.
- LOCAL CHECK OPTION checks for syntax errors, while CASCDED CHECK OPTION checks for runtime errors.

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Question 17/20 (1 p.)

Which of the following is a use case for a trigger in PostgreSQL?

- To speed up query execution.
- To automatically update a last_modified column to the current timestamp.
- To manage database connections.
- To create new tables dynamically.

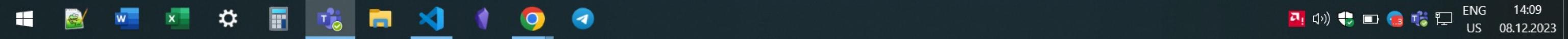
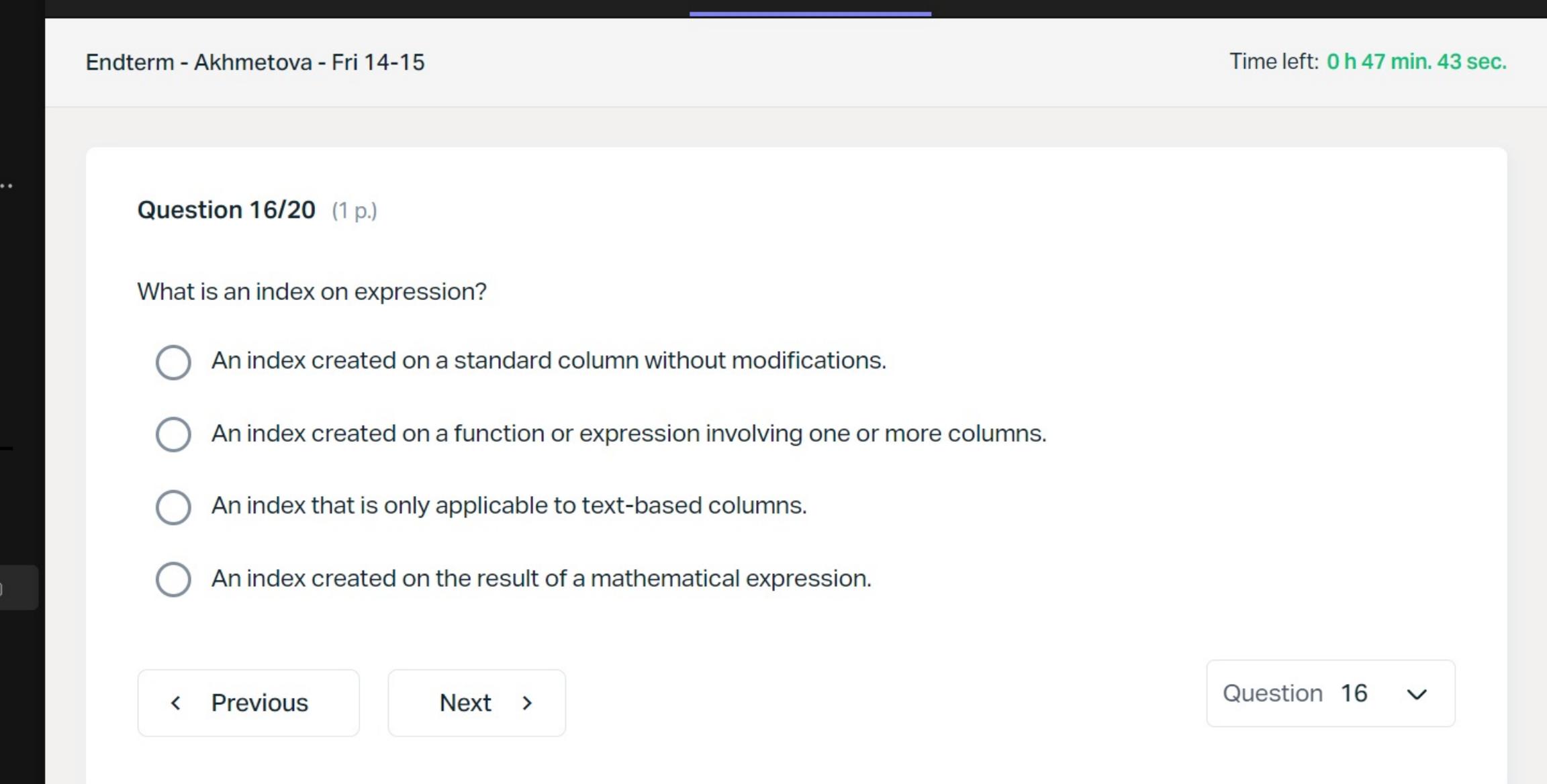
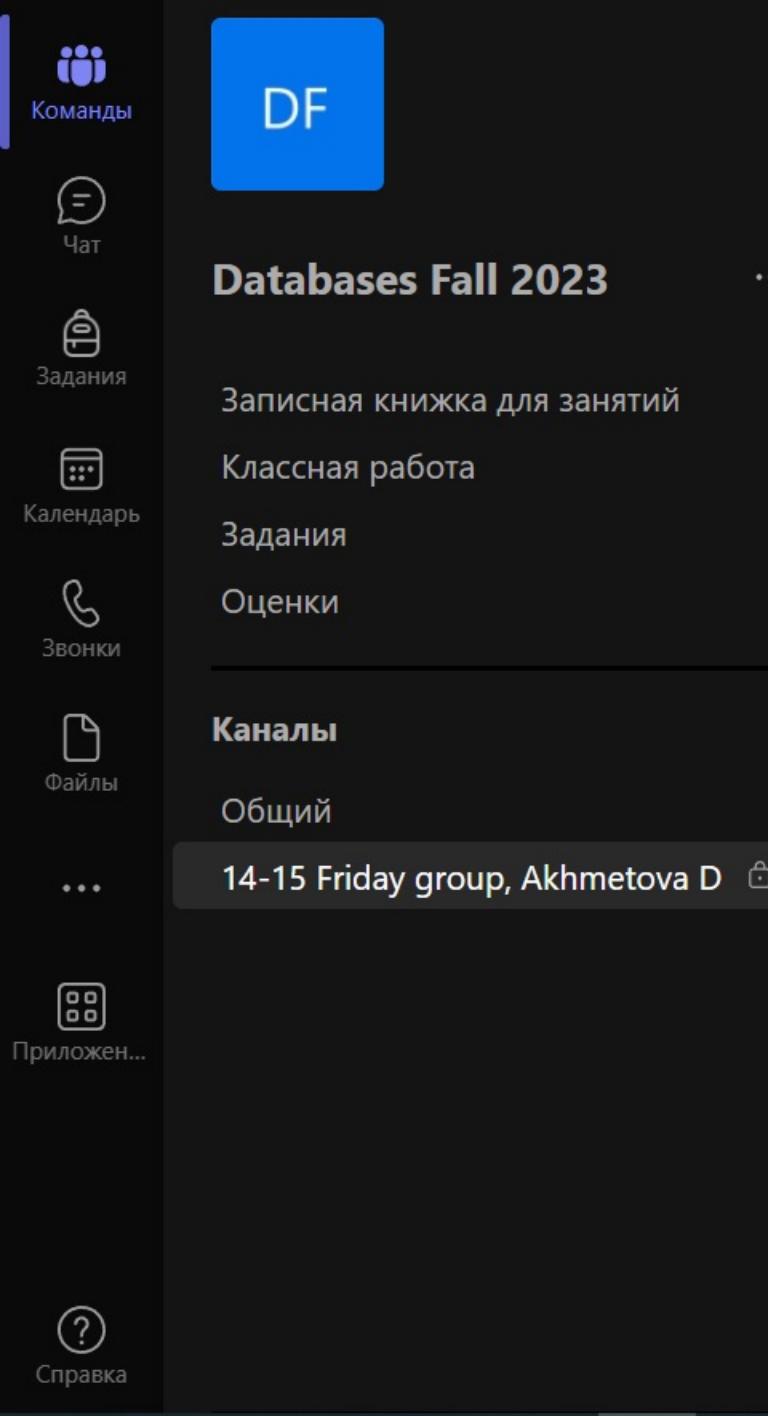
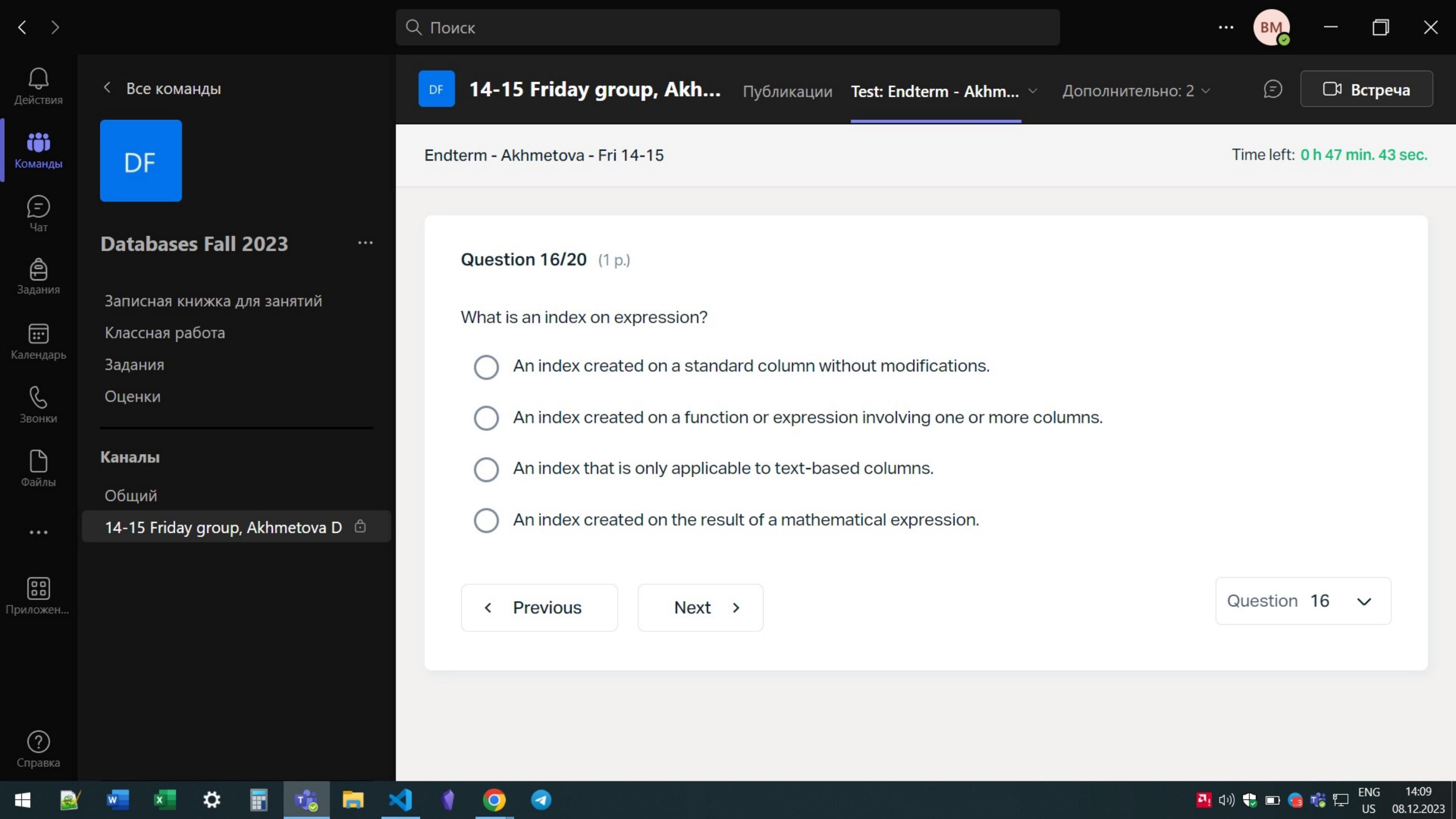
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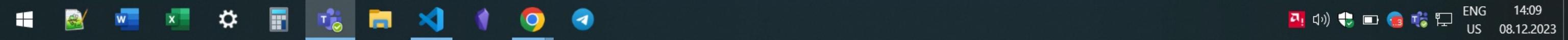
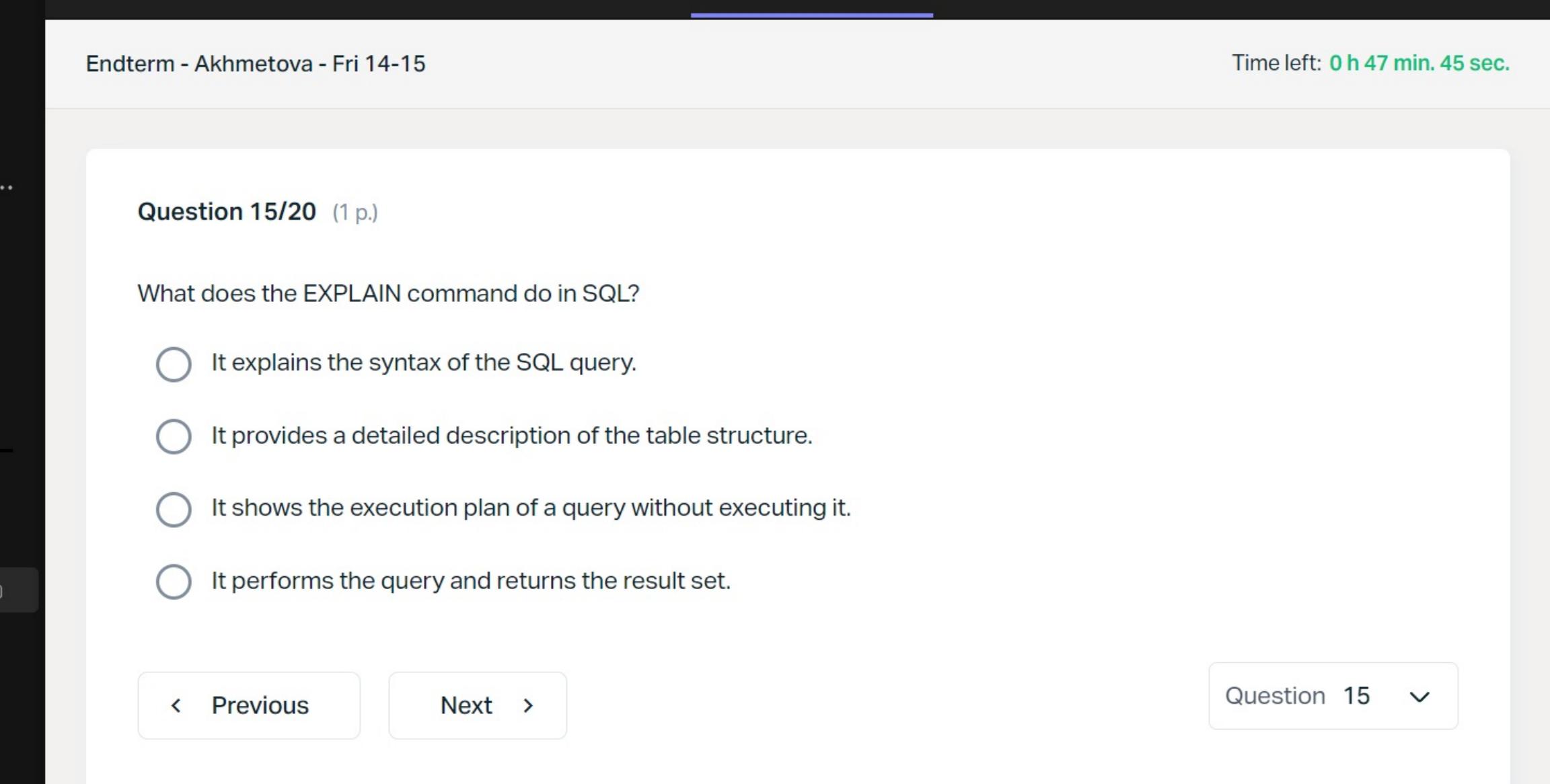
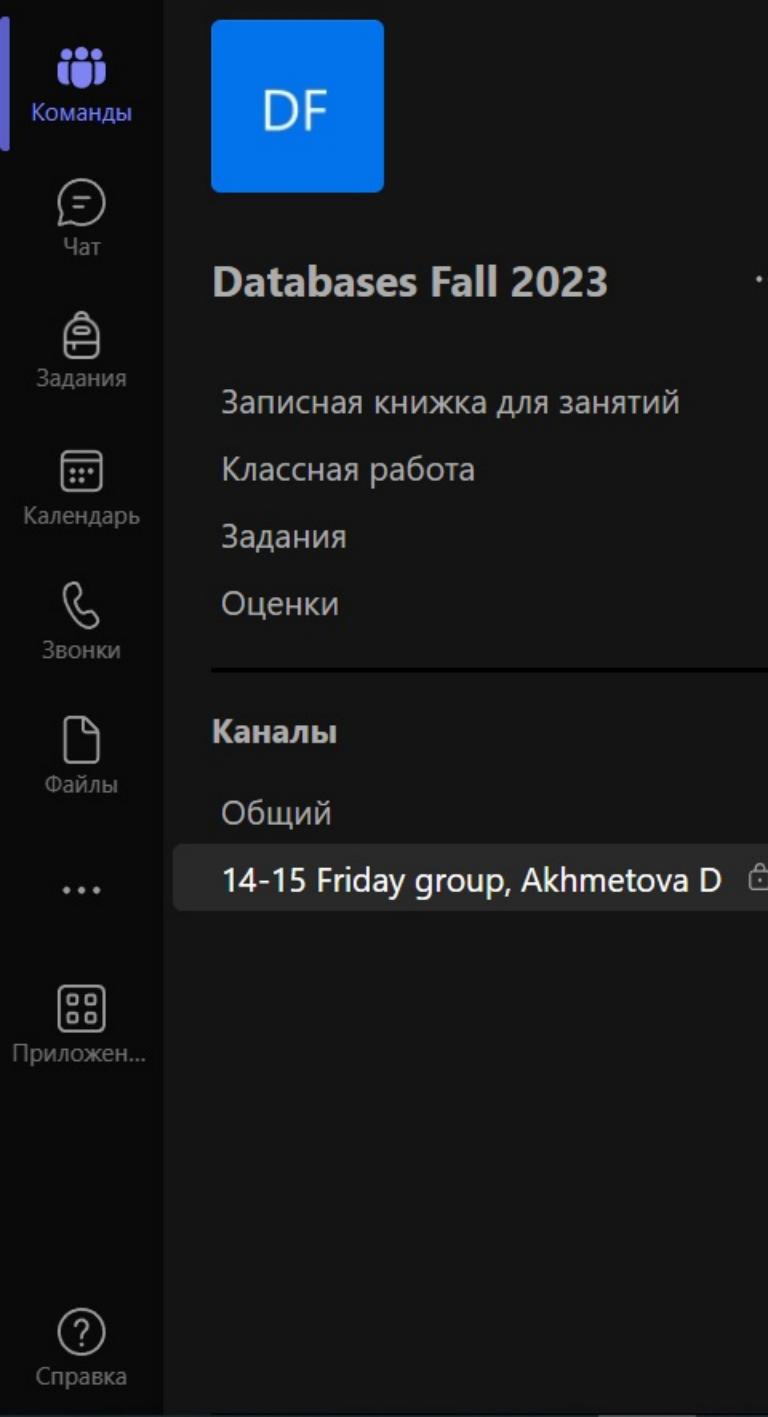
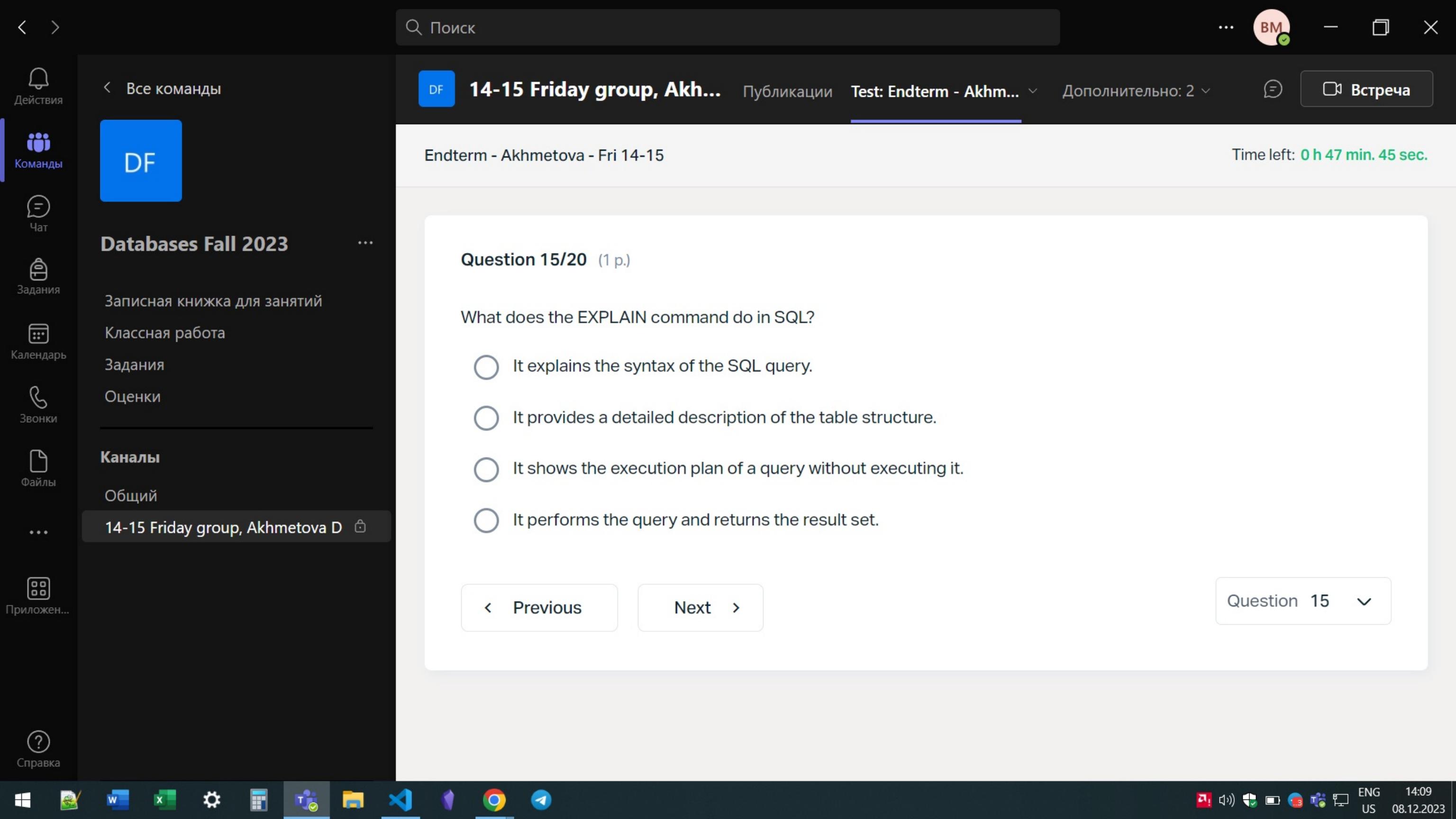
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Question 14/20 (1 p.)

What is a materialized view in SQL?

- A view with constraints on materialized data types
- A view with additional materialized columns
- A physical copy of the view data stored in a memory
- A view that is automatically updated when the underlying data changes

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Question 13/20 (1 p.)

What is the main advantage of a B-Tree index?

- It is the default index type for most databases.
- It provides efficient access for both range and exact match queries.
- It works best with columns having a limited set of possible values.
- It is optimized for full-text searches.

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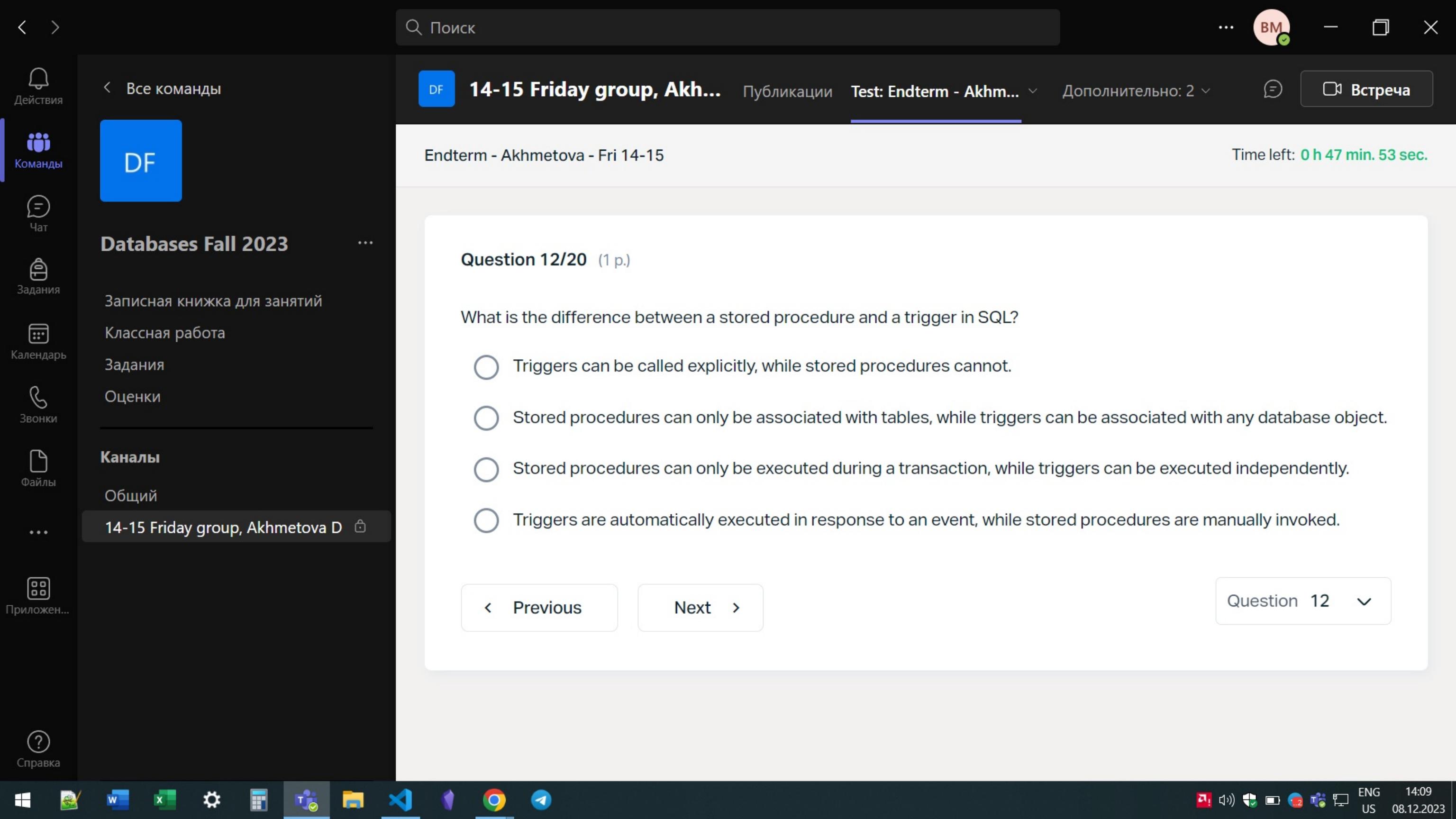
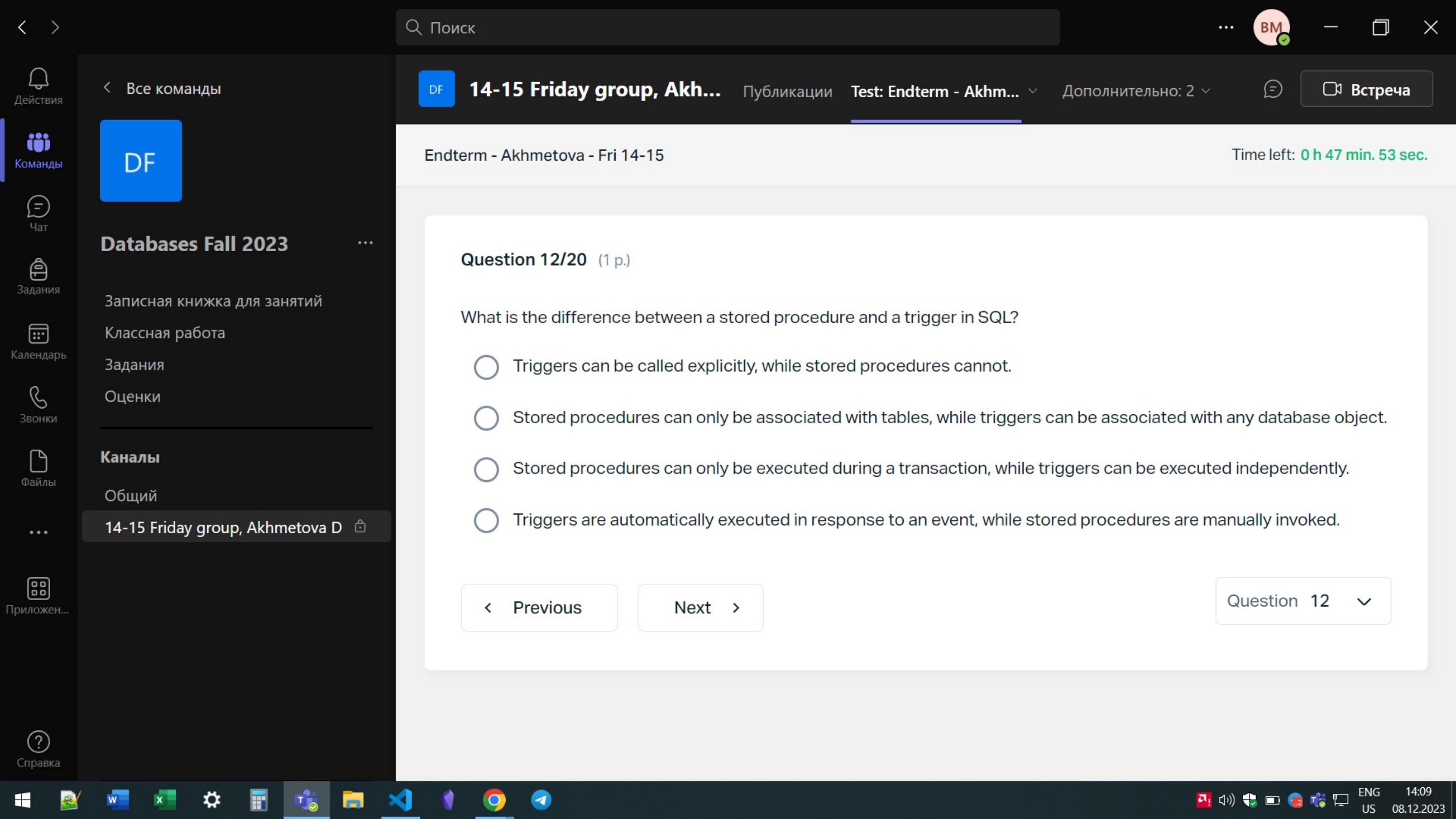
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Question 11/20 (1 p.)

What is the primary purpose of an INOUT parameter in a stored procedure?

- Both input and output
- Input only
- Output only
- Neither input nor output

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Question 9/20 (1 p.)

What type of index does the CREATE INDEX command create by default?

- Hash
- B-tree
- GiST
- BRIN

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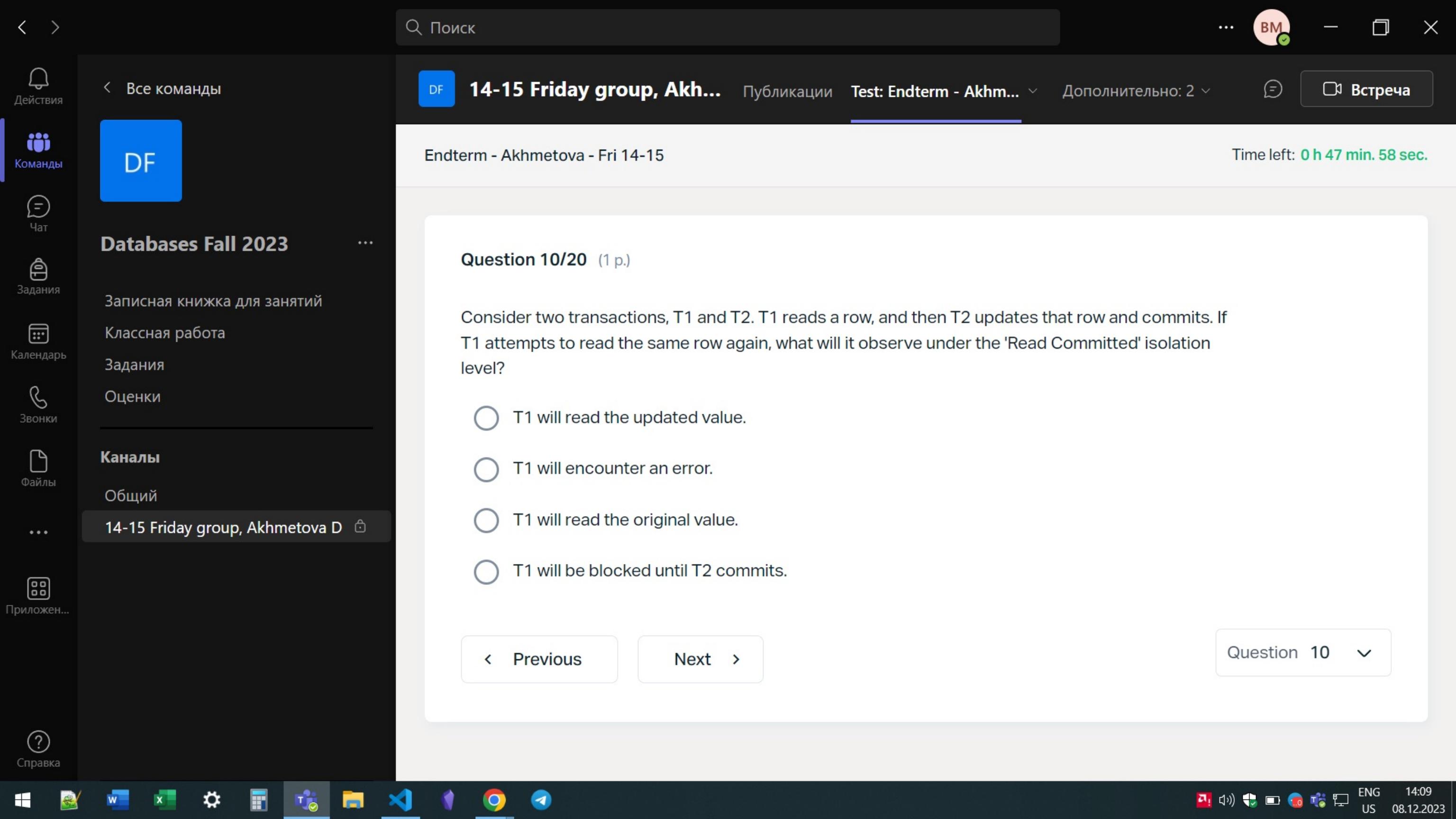
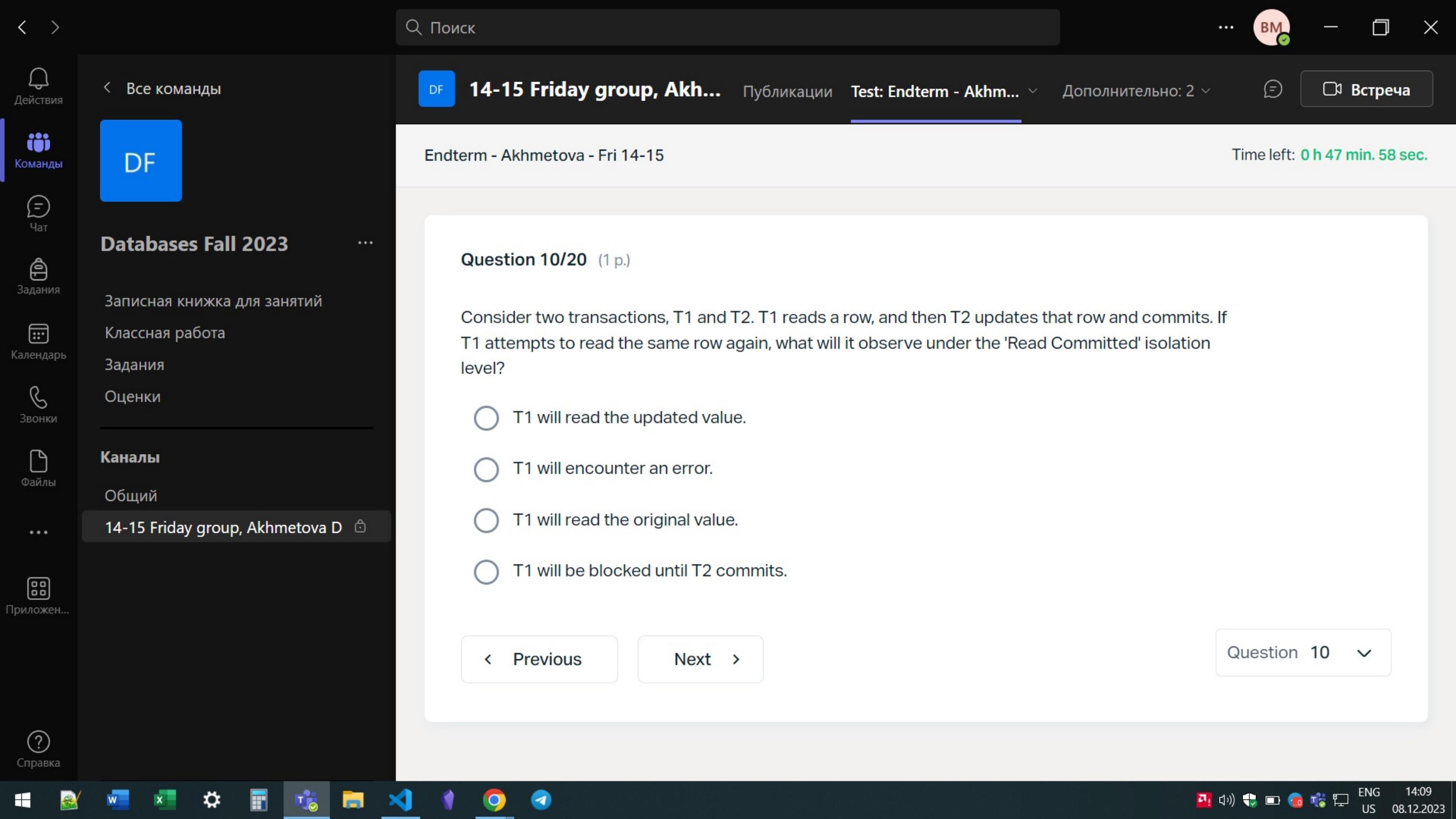
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Question 8/20 (1 p.)

In PostgreSQL, which command is used to change a role's attributes?

- ALTER ROLE
- UPDATE ROLE
- MODIFY ROLE
- CHANGE ROLE

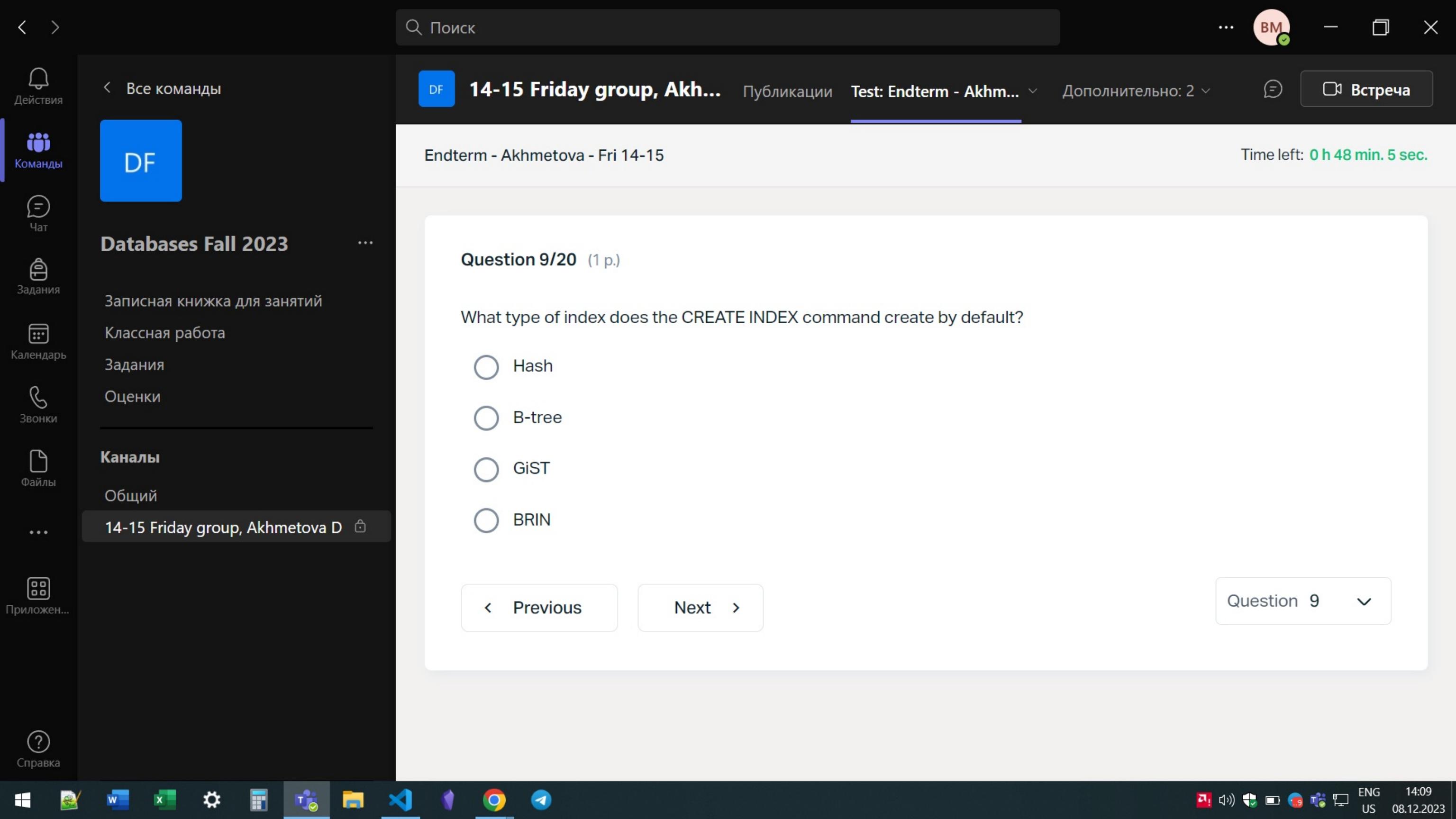
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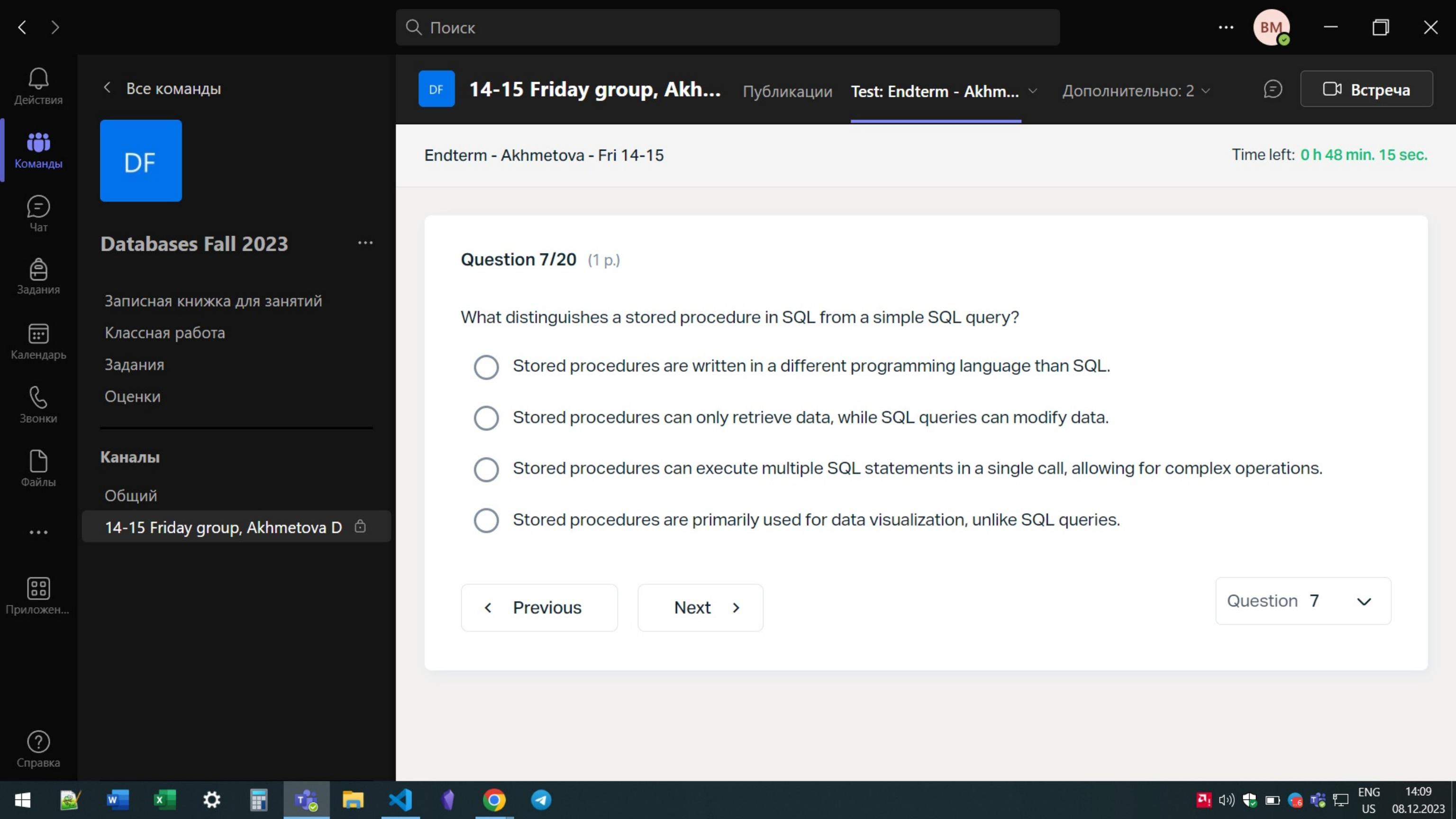
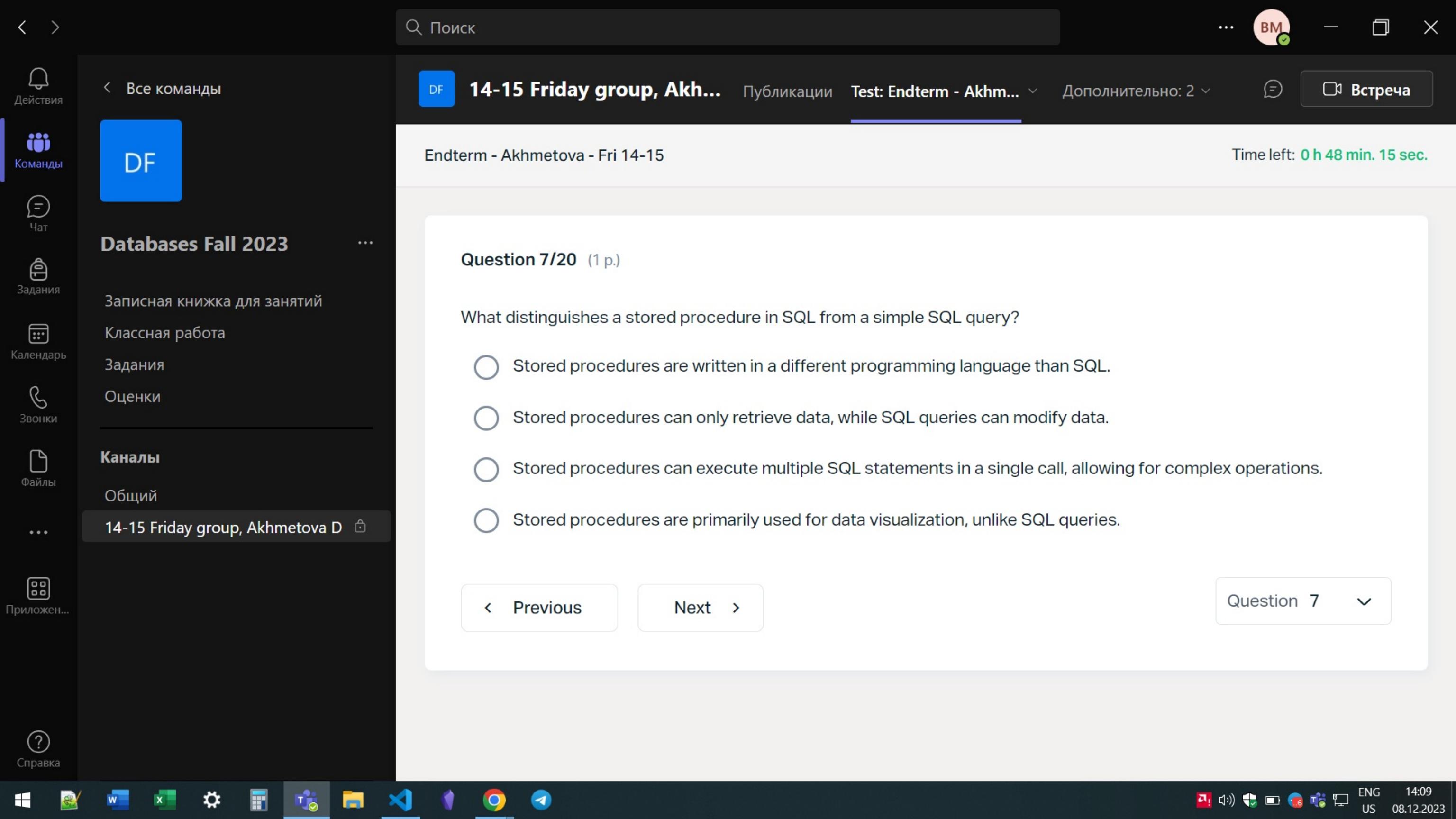
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Question 6/20 (1 p.)

Under the 'Read Committed' isolation level, if Transaction T1 updates a row, and Transaction T2 reads the same row before T1 commits, what will T2 observe?

- The original value before T1's update.
- The updated value by T1.
- An error due to uncommitted changes.
- A snapshot of the entire database.

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Question 5/20 (1 p.)

What is a superuser in PostgreSQL?

- A role that is automatically created when the database is installed.
- A role that can create other roles.
- A user that has access to all commands and features.
- A user that can log in to the PostgreSQL database.

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Question 3/20 (1 p.)

Assuming a materialized view *EmpDepartmentView* is created as follows:

```
CREATE MATERIALIZED VIEW EmpDepartmentView AS
SELECT Employees.Name, Employees.Department
FROM Employees;
```

What needs to be done to ensure that changes in the Employees table are reflected in the EmpDepartmentView?

- Use the REFRESH MATERIALIZED VIEW command.
- Re-create the view with updated data.
- Automatically updates, no action needed.
- Use the UPDATE statement on the view.

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