

Project yang dibuat merupakan mini project spring boot yang diperuntukan untuk membantu organisasi kemahasiswaan dalam mencatat dan melacak detail kegiatan yang dilakukan setiap divisi

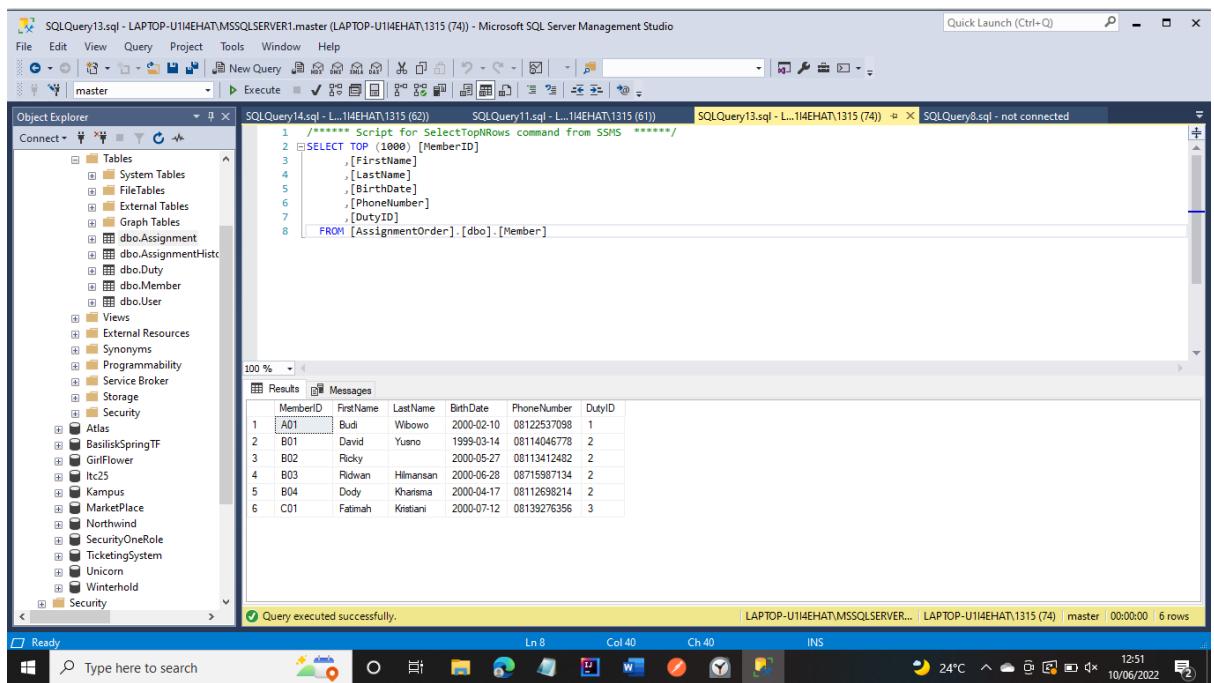
(code B Staff member di aplikasi - ketua divisi)

(Code A Admin di aplikasi - mengatur kegiatan aplikasi)

(Code C Chairman organisasi - memfinalisasi approval assignment)

### 1. Contoh crud (pada member)

- Menambahkan member



The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists several databases and their objects. The central pane displays a T-SQL script for selecting top 1000 rows from the [Member] table. The results pane shows a table with six rows of member data. The status bar at the bottom indicates the query was executed successfully.

MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
A01	Budi	Wbowo	2000-02-10	08122537098	1
B01	David	Yusno	1999-03-14	08114046778	2
B02	Ricky		2000-05-27	08113412482	2
B03	Ridwan	Hilmansen	2000-06-28	08715987134	2
B04	Dody	Kharisma	2000-04-17	08112698214	2
C01	Fatimah	Kristiani	2000-07-12	08139276356	3

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Search Postman

AssignmentOrder / Member / Insert new member

POST {{base\_url}}/member/insert

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1
2 ...
3 ...
4 ...
5 ...
6 ...
7 ...
8 ...
```

Body Cookies Headers (11) Test Results

Pretty Raw Preview Visualize JSON

Status: 201 Created Time: 113 ms Size: 416 B Save Response

Cookies Capture requests Bootcamp Runner Trash

Find and Replace Console

This screenshot shows the Postman application interface. On the left, there's a sidebar with collections like 'bootcamp', APIs, environments, mock servers, monitors, flows, and history. The main area shows a 'POST' request to 'AssignmentOrder / Member / Insert new member' with the URL '{{base\_url}}/member/insert'. The 'Body' tab is selected, showing a JSON payload:

```
1
2 ...
3 ...
4 ...
5 ...
6 ...
7 ...
8 ...
```

The response status is 201 Created, and the response body is:

```
1
2 ...
3 ...
4 ...
5 ...
6 ...
7 ...
8 ...
```

SQLQuery13.sql - LAPTOP-U1I4EHAT\MSQLSERVER1 master (LAPTOP-U1I4EHAT\1315 (74)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

Tables Views External Resources Synonyms Programmability Service Broker Storage Security

Atlas BasiliskSpringTF GirFlower Itc25 Kampus MarketPlace Northwind SecurityOneRole TicketingSystem Unicorn Winterhold Security

SQLQuery14.sql - L...114EHAT\1315 (62) SQLQuery11.sql - L...114EHAT\1315 (61) SQLQuery13.sql - L...114EHAT\1315 (74) SQLQuery8.sql - not connected

```
1 /*===== Script for SelectTopNRows command from SSMS =====*/
2 SELECT TOP (1000) [MemberID]
3       ,[FirstName]
4       ,[LastName]
5       ,[BirthDate]
6       ,[PhoneNumber]
7       ,[DutyID]
8   FROM [AssignmentOrder].[dbo].[Member]
```

Results Messages

	MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
1	A01	Budi	Wibowo	2000-02-10	08122537098	1
2	B01	David	Yusno	1999-03-14	08114046778	2
3	B02	Ricky		2000-05-27	08113412482	2
4	B03	Ridwan	Hilmansan	2000-06-28	08715987134	2
5	B04	Dody	Kharima	2000-04-17	08112698214	2
6	B05	Diana	Wardhani	2000-07-29	08112693732	2
7	C01	Fatmah	Kristiani	2000-07-12	08139276356	3

Query executed successfully.

LAPTOP-U1I4EHAT\MSQLSERVER1 | LAPTOP-U1I4EHAT\1315 (74) | master | 00:00:00 | 7 rows

This screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The left pane shows the Object Explorer with various databases and objects. The central pane displays a T-SQL script to select top 1000 rows from the 'Member' table. The results pane shows a table with 7 rows of data:

	MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
1	A01	Budi	Wibowo	2000-02-10	08122537098	1
2	B01	David	Yusno	1999-03-14	08114046778	2
3	B02	Ricky		2000-05-27	08113412482	2
4	B03	Ridwan	Hilmansan	2000-06-28	08715987134	2
5	B04	Dody	Kharima	2000-04-17	08112698214	2
6	B05	Diana	Wardhani	2000-07-29	08112693732	2
7	C01	Fatmah	Kristiani	2000-07-12	08139276356	3

## - Melakukan Update

The screenshot displays two windows side-by-side. On the left is Microsoft SQL Server Management Studio (SSMS) showing a query window with the following script:

```
1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [MemberID]
3     ,[FirstName]
4     ,[LastName]
5     ,[BirthDate]
6     ,[PhoneNumber]
7     ,[DutyID]
8 FROM [AssignmentOrder].[dbo].[Member]
```

The results pane shows a table with 7 rows of data:

MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
A01	Budi	Wibowo	2000-02-10	08122537098	1
B01	David	Yusno	1999-03-14	08114046778	2
B02	Ricky		2000-05-27	08113412482	2
B03	Ridwan	Hilmansen	2000-06-28	08715987134	2
B04	Dody	Kharisma	2000-04-17	08112698214	2
B05	Diana	Wardhani	2000-07-29	08112893732	2
C01	Fatmah	Kristiani	2000-07-12	08139276356	3

The status bar at the bottom of the SSMS window indicates "Query executed successfully".

On the right is the Postman application interface. The sidebar shows a collection named "bootcamp" with various API endpoints listed under "AssignmentOrder / Member / Update member". One endpoint, "POST {{base\_url}}/member/update/B05", is selected and its details are shown in the main panel. The "Body" tab is active, displaying the following JSON payload:

```
1 {
2     "firstName": "x",
3     "lastName": "x",
4     "birthDate": "11/01/2000",
5     "phone": "68122537098"
6 }
```

The response panel shows a successful POST request with a status of 200 OK, a response time of 48 ms, and a response size of 414 B. The response body is:

```
1 {
2     "data": true,
3     "message": "Berhasil mengupdate entitas",
4     "status": "200"
5 }
```

SQLQuery13.sql - LAPTOP-U1I4EHAT\MSQLSERVER1.master (LAPTOP-U1I4EHAT\1315 (74)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

SQLQuery14.sql - L..1I4EHAT\1315 (62) SQLQuery11.sql - L..1I4EHAT\1315 (61) SQLQuery13.sql - L..1I4EHAT\1315 (74) SQLQuery8.sql - not connected

1 /\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*/  
2 SELECT TOP (1000) [MemberID]  
3 , [FirstName]  
4 , [LastName]  
5 , [BirthDate]  
6 , [PhoneNumber]  
7 , [DutyID]  
8 FROM [AssignmentOrder].[dbo].[Member]

Results Messages

	MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
1	A01	Budi	Wbowo	2000-02-10	0812537098	1
2	B01	David	Yusno	1999-03-14	08114046778	2
3	B02	Ricky		2000-05-27	08113412482	2
4	B03	Ridwan	Hilmansan	2000-06-28	08715987134	2
5	B04	Dody	Khatisma	2000-04-17	08112698214	2
6	B05	x	x	2000-01-11	0812537098	2
7	C01	Fatmah	Kristiani	2000-07-12	08139276356	3

Query executed successfully.

LAPTOP-U1I4EHAT\MSQLSERVER... | LAPTOP-U1I4EHAT\1315 (74) | master | 00:00:00 | 7 rows

Ready Type here to search Ln 8 Col 40 Ch 40 INS 24°C 10/06/2022

- Melakukan delete

SQLQuery13.sql - LAPTOP-U1I4EHAT\MSQLSERVER1.master (LAPTOP-U1I4EHAT\1315 (74)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

SQLQuery14.sql - L..1I4EHAT\1315 (62) SQLQuery11.sql - L..1I4EHAT\1315 (61) SQLQuery13.sql - L..1I4EHAT\1315 (74) SQLQuery8.sql - not connected

1 /\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*/  
2 SELECT TOP (1000) [MemberID]  
3 , [FirstName]  
4 , [LastName]  
5 , [BirthDate]  
6 , [PhoneNumber]  
7 , [DutyID]  
8 FROM [AssignmentOrder].[dbo].[Member]

Results Messages

	MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
1	A01	Budi	Wbowo	2000-02-10	0812537098	1
2	B01	David	Yusno	1999-03-14	08114046778	2
3	B02	Ricky		2000-05-27	08113412482	2
4	B03	Ridwan	Hilmansan	2000-06-28	08715987134	2
5	B04	Dody	Khatisma	2000-04-17	08112698214	2
6	B05	x	x	2000-01-11	0812537098	2
7	C01	Fatmah	Kristiani	2000-07-12	08139276356	3

Query executed successfully.

LAPTOP-U1I4EHAT\MSQLSERVER... | LAPTOP-U1I4EHAT\1315 (74) | master | 00:00:00 | 7 rows

Ready Type here to search Ln 8 Col 40 Ch 40 INS 24°C 10/06/2022

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

AssignmentOrder / Member / Delete member

DELETE `((base_url))/member/delete/B05`

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Basic Auth Username Budi

The authorization header will be automatically generated when you send the request.

Authorization

Body Cookies (1) Headers (11) Test Results

Pretty Raw Preview Visualize JSON

Status: 200 OK Time: 87 ms Size: 413 B Save Response

Find and Replace Console

Find here search

1 "data": true,  
2 "message": "Berhasil menghapus entitas",  
3 "status": "200"

Cookies Capture requests Bootcamp Runner Trash

12:56 24°C 10/06/2022

AssignmentOrder / Member / Delete member

DELETE `((base_url))/member/delete/B05`

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Basic Auth Username Budi

The authorization header will be automatically generated when you send the request.

Authorization

Body Cookies (1) Headers (11) Test Results

Pretty Raw Preview Visualize JSON

Status: 200 OK Time: 87 ms Size: 413 B Save Response

Find and Replace Console

Find here search

1 "data": true,  
2 "message": "Berhasil menghapus entitas",  
3 "status": "200"

Cookies Capture requests Bootcamp Runner Trash

12:56 24°C 10/06/2022

SQLQuery13.sql - LAPTOP-U1I4EHAT\MSQLSERVER1.master (LAPTOP-U1I4EHAT\1315 (74)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master | Execute

Object Explorer

- Tables
  - System Tables
  - FileTables
  - External Tables
  - Graph Tables
  - dbo.Assignment
  - dbo.AssignmentHistory
  - dbo.Duty
  - dbo.Member
  - dbo.User
- Views
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security

SQLQuery14.sql - L..114EHAT\1315 (62) SQLQuery11.sql - L..114EHAT\1315 (61) SQLQuery13.sql - L..114EHAT\1315 (74) SQLQuery8.sql - not connected

```
1 /*===== Script for SelectTopNRows command from SSMS =====*/
2 SELECT TOP (1000) [MemberID]
3   ,[FirstName]
4   ,[LastName]
5   ,[BirthDate]
6   ,[PhoneNumber]
7   ,[DutyID]
8 FROM [AssignmentOrder].[dbo].[Member]
```

Results Messages

MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
A01	Budi	Wibowo	2000-02-10	0812537098	1
B01	David	Yusno	1999-03-14	08114046778	2
B02	Ricky		2000-05-27	08113412482	2
B03	Ridwan	Hilmansan	2000-06-28	08715987134	2
B04	Dody	Kharisma	2000-04-17	08112698214	2
C01	Fatmah	Kristiani	2000-07-12	08139276356	3

Query executed successfully.

LAPTOP-U1I4EHAT\MSQLSERVER... LAPTOP-U1I4EHAT\1315 (74) master 00:00:00 6 rows

Ready Type here to search

Ln 8 Col 40 Ch 40 INS

24°C 10/06/2022

## 2. Membuat assignment

The screenshot displays two windows side-by-side. On the left is the Postman application interface, and on the right is Microsoft SQL Server Management Studio.

**Postman (Left Window):**

- The sidebar shows a collection named "bootcamp" containing various API endpoints under "AssignmentOrder" and "Assignment".
- The main panel shows a POST request to "((base\_url))/assignment insert".
- The "Body" tab contains the following JSON payload:

```
1   {
2     "title": "Mempersiapkan ruang",
3     "details": "Mencari ruang sesuai kebutuhan acara kemahasiswaan",
4     "requestDate": "12/01/2022",
5     "dueDate": "17/01/2022",
6     "urgency": "medium"
7 }
```

**SQL Server Management Studio (Right Window):**

- The Object Explorer shows the database structure with tables like "Assignment", "AssignmentHistory", and "AssignmentOrder".
- The SQL Query Editor window displays a query result:

```
1 /*===== Script for SelectTopNRows command from SSMS =====*/
2 SELECT TOP (1000) [AssignmentID]
3       ,[Title]
4       ,[Details]
5       ,[RequestDate]
6       ,[DueDate]
7       ,[Urgency]
8       ,[Status]
9       ,[CreatedBy]
10      ,[AppointedTo]
11  FROM [AssignmentOrder].[dbo].[Assignment]
```

**Result Set (SQL Query Editor):**

AssignmentID	Title	Details	RequestDate	DueDate	Urgency	Status	CreatedBy	AppointedTo	
1	ARQ/2022/1	Mempersiapkan ruang	Mencari ruang sesuai kebutuhan acara kemahasiswaan	2022-01-12	2022-01-17	MEDIUM	IN_PROGRESS	NULL	NULL

### 3. Assign staff member to assignment

The screenshot shows the Postman application interface. On the left, the 'Collections' sidebar is open, displaying a tree structure of API endpoints under 'AssignmentOrder' and 'Assignment'. The 'Assignment' node is expanded, showing 'PUT Assign member for assignment...' which is selected. The main workspace shows a 'PUT' request with the URL `((base_url))/assignment/put-ad-st?assignmentId=ARQ/2022/1&memberIdAd=A01&memberIdSt=B01`. The 'Params' tab shows three checked parameters: 'assignmentId' (value: ARQ/2022/1), 'memberIdAd' (value: A01), and 'memberIdSt' (value: B01). The response body is displayed as JSON:

```
1 "data": true,
2 "message": "Berhasil menambahkan entitas admin dan member staff ke assignment",
3 "status": "200"
```

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The 'Object Explorer' pane on the left shows the database structure, including tables like 'Assignment', 'AssignmentHistory', and 'AssignmentOrder'. The 'SQL Query Editor' pane contains a T-SQL script for creating an assignment record:

```
1 /****** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [AssignmentID]
3   ,[Title]
4   ,[Details]
5   ,[RequestDate]
6   ,[DueDate]
7   ,[Urgency]
8   ,[Status]
9   ,[CreatedBy]
10  ,[AppointedTo]
11 FROM [AssignmentOrder].[dbo].[Assignment]
```

The results pane shows the newly created assignment record:

AssignmentID	Title	Details	RequestDate	DueDate	Urgency	Status	CreatedBy	AppointedTo
ARQ/2022/1	Mempersiapkan ruang	Mencari ruang sesuai kebutuhan acara kemahasiswaan	2022-01-12	2022-01-17	MEDIUM	IN_PROGRESS	A01	B01

At the bottom, a message indicates the query was executed successfully.

#### 4. Assignment cancel example

**Postman**

File Edit View Help

Home Workspaces API Network Reports Explore Search Postman

bootcamp AssignmentOrder / Assignment / Cancel assignment

POST `((base_url))/assignment/cancel?assignmentId=ARQ/2022/1`

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Type Basic Auth Username Budi

The authorization header will be automatically generated when you send the request.

Authorization

Body Cookies (1) Headers (11) Test Results

Pretty Raw Preview Visualize JSON

Status: 200 OK Time: 64 ms Size: 415 B Save Response

AssignmentOrder / Assignment / Cancel assignment

Assignment

Assignment History

Find and Replace Console

SQLQuery11.sql - LAPTOP-U114EHAT\MSQLSERVER1.master (LAPTOP-U114EHAT\1315 (61)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

Tables System Tables FileTables External Tables Graph Tables dbo.Assignment dbo.AssignmentHistory dbo.Duty dbo.Member dbo.User Views External Resources Synonyms Programmability Service Broker Storage Security

SQLQuery14.sql - ...114EHAT\1315 (62)

```

1 /****** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [AssignmentID]
3     ,[Title]
4     ,[Details]
5     ,[RequestDate]
6     ,[DueDate]
7     ,[Urgency]
8     ,[Status]
9     ,[CreatedBy]
10    ,[AppointedTo]
11   FROM [AssignmentOrder].[dbo].[Assignment]

```

Results Messages

AssignmentID	Title	Details	RequestDate	DueDate	Urgency	Status	CreatedBy	AppointedTo
1 ARQ/2022/1	Mempersiapkan ruang	Mencari ruang sesuai kebutuhan acara kemahasiswaan	2022-01-12	2022-01-17	MEDIUM	CANCELED	A01	B01
2 ARQ/2022/2	Mempersiapkan perangkat pameran	Melakukan persiapan perangkat yang akan di pamer...	2022-01-13	2022-01-17	HIGH	IN_PROGRESS	A01	B02

Query executed successfully.

LAPTOP-U114EHAT\MSQLSERVER1... | LAPTOP-U114EHAT\1315 (61) | master | 00:00:00 | 2 rows

Ready

Type here to search

## 5. Assignment complete example dan approval

Screenshot of Microsoft SQL Server Management Studio (SSMS) showing the execution of a query and its results.

**Object Explorer:**

- Tables:
  - System Tables
  - FileTables
  - External Tables
  - Graph Tables
  - dbo.Assignment
  - dbo.AssignmentHistory
  - dbo.Duty
  - dbo.Member
  - dbo.User
- Views
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security
- Atlas
- BasiliskSpringTF
- GirlFlower
- Itc25
- Kampus
- MarketPlace
- Northwind
- SecurityOneRole
- TicketingSystem
- Unicorn
- Winterhold
- Security

```
1 /****** Script for SelectTopNRows command from SSMS *****/
2 SET NOCOUNT ON;
3 SELECT TOP (1000) [AssignmentID]
4     ,[Title]
5     ,[Details]
6     ,[RequestDate]
7     ,[DueDate]
8     ,[Urgency]
9     ,[Status]
10    ,[CreatedBy]
11    ,[AppointedTo]
12   FROM [AssignmentOrder].[dbo].[Assignment]
```

AssignmentID	Title	Details	RequestDate	DueDate	Urgency	Status	CreatedBy	AppointedTo
ARQ/2022/1	Mempersiapkan ruang	Mencari ruang sesuai kebutuhan acara kemahasiswaan	2022-01-12	2022-01-17	MEDIUM	CANCELED	A01	B01
ARQ/2022/2	Mempersiapkan perangkat pameran	Lakukan persiapan perangkat yang akan di pamer...	2022-01-13	2022-01-17	HIGH	IN_PROGRESS	A01	B02

Query executed successfully.

Screenshot of Postman showing a successful POST request to create an assignment history.

**Postman UI:**

- Collection: bootcamp
- API: AssignmentHistory / Make assignment history
- Method: POST
- URL: `((base_url))/assignmentHistory/insert?assignmentId=ARQ/2022/2`
- Authorization: Basic Auth (Username: Budi, Password: [REDACTED])
- Body (JSON):
 

```
1 {
2     "data": true,
3     "message": "Berhasil membuat assignment history",
4     "status": "200"
5 }
```
- Response Status: 200 OK

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar indicates the connection is to 'LAPTOP-U114EHAT\mssqlserver1.master' (L1315 (61)). The Object Explorer sidebar shows the database structure with various tables like 'Tables', 'System Tables', 'FileTables', etc. The main pane displays a T-SQL script for selecting top 1000 rows from the 'Assignment' table:

```
1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [AssignmentID]
3     ,[Title]
4     ,[Details]
5     ,[RequestDate]
6     ,[RequestDate]
7     ,[Status]
8     ,[CreatedBy]
9     ,[AppointedTo]
10    FROM [AssignmentOrder].[dbo].[Assignment]
```

The results pane shows two rows of data from the 'Assignment' table:

	AssignmentID	Title	Details	RequestDate	DueDate	Urgency	Status	CreatedBy	AppointedTo
1	ARQ/2022/1	Mempersiapkan ruang	Mencari ruang sesuai kebutuhan acara kemahasiswaan	2022-01-12	2022-01-17	MEDIUM	CANCELED	A01	B01
2	ARQ/2022/2	Mempersiapkan perangkat pameran	Melakukan persiapan perangkat yang akan di pamer...	2022-01-13	2022-01-17	HIGH	COMPLETED	A01	B02

The status bar at the bottom shows 'Query executed successfully.' and other session details.

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'LAPTOP-U114EHAT\mssqlserver1.master' (LAPTOP-U114EHAT\1315 (62)) - Microsoft SQL Server Management Studio.

The Object Explorer pane on the left lists various database objects such as Tables, Views, and Procedures.

The central pane displays a query window with the following T-SQL script:

```
1 /*===== Script for SelectTopNRows command from SSMS =====*/
2 SELECT TOP (1000) [AssignmentID]
3     ,[Description]
4     ,[CompletedDate]
5     ,[Status]
6     ,[ApprovedBy]
7 FROM [AssignmentOrder].[dbo].[AssignmentHistory]
```

The results pane below shows one row of data:

	AssignmentID	Description	CompletedDate	Status	ApprovedBy
1	ARQ/2022/2	Perangkat sudah dipersiapkan dan ready 1 hr sebe...	2022-01-16	ON_TIME	NULL

The status bar at the bottom shows 'Query executed successfully.' and other session details.

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Search Postman

PUT Asig ● POST Car ● POST Make

PUT Assi ● GET Activ ● GET Non ● GET Assi ●

AssignmentOrder / Assignment History / Assignment history approval

PUT {{base\_url}}/assignmentHistory/approve?memberId=C01&assignmentHistoryId=ARQ/2022/2

No new changes to save.

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Type Basic Auth Username Fatiyah Password \*\*\*\*\* Show Password

The authorization header will be automatically generated when you send the request.

Learn more about authorization

Body Cookies (1) Headers (11) Test Results

Pretty Raw Preview Visualize JSON

1    "data": true,  
2    "message": "Assignment berhasil di approve",  
3    "status": "200"  
4  
5

Find and Replace Console

Cookies Capture requests Bootcamp Runner Trash

24°C 13:10 10/06/2022

SQLQuery14.sql - LAPTOP-U114EHAT\MSQLSERVER1.master (LAPTOP-U114EHAT\1315 (62)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Object Explorer Execute

master

Object Explorer

Tables System Tables FileTables External Tables Graph Tables dbo.Assignment dbo.AssignmentHistory dbo.Duty dbo.Member dbo.User Views External Resources Synonyms Programmability Service Broker Storage Security

Script for SelectTopNRows command from SSMS

```
1 /*===== Script for SelectTopNRows command from SSMS =====*/  
2 SELECT TOP (1000) [AssignmentID]  
3     ,[Description]  
4     ,[CompletedDate]  
5     ,[Status]  
6     ,[ApprovedBy]  
7  FROM [AssignmentOrder].[dbo].[AssignmentHistory]
```

Results Messages

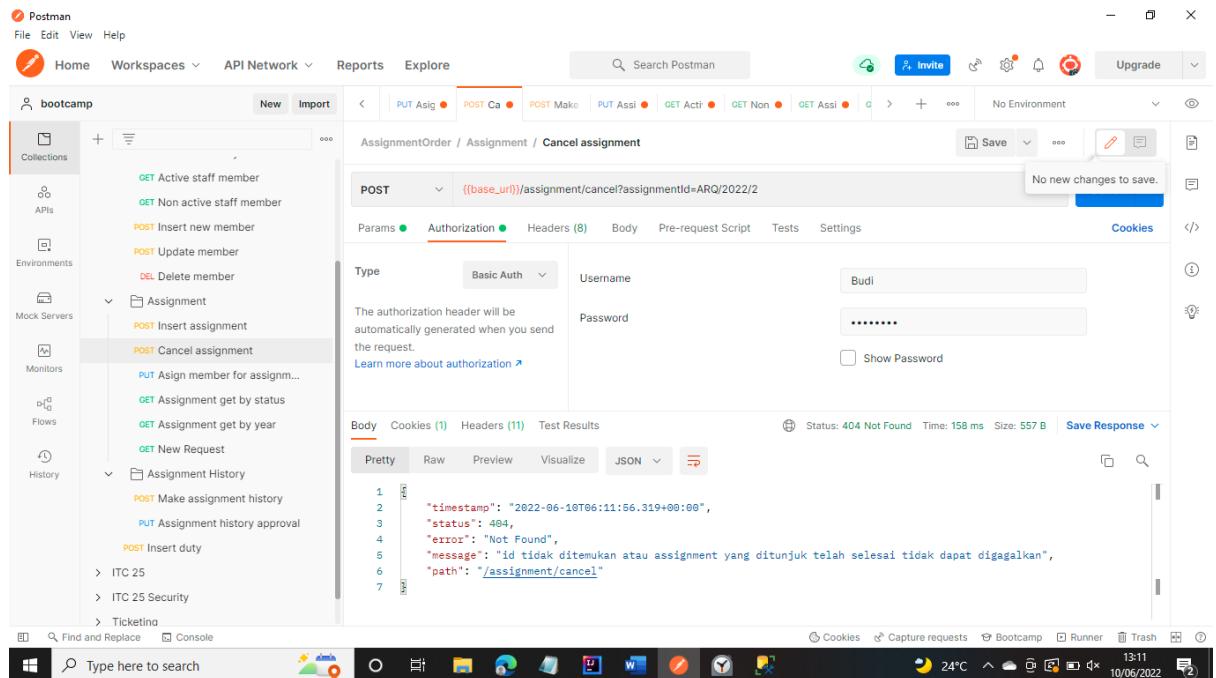
AssignmentID	Description	CompletedDate	Status	ApprovedBy
1 ARQ/2022/2	Perangkat sudah dipersiapkan dan ready 1 hr sebe...	2022-01-16	ON_TIME	C01

Query executed successfully.

LAPTOP-U114EHAT\MSQLSERVER1... | LAPTOP-U114EHAT\1315 (62) | master | 00:00:00 | 1 rows

Ready Type here to search

24°C 13:11 10/06/2022



## 6. Example native query usage

```

import java.util.List;

public interface AssignmentRepository extends JpaRepository<Assignment, String> {

    @Query(value = """
        Select *
        FROM Assignment
        WHERE AssignmentID LIKE %:tahun%
        """, nativeQuery = true)
    List<Assignment> getAssignmentByYear(@Param("tahun") String tahun);

    @Query(value = """
        Select *
        FROM Assignment
        WHERE Status = :status
        """, nativeQuery = true)
    List<Assignment> getAssignmentByStatus(@Param("status") String status);
}

```

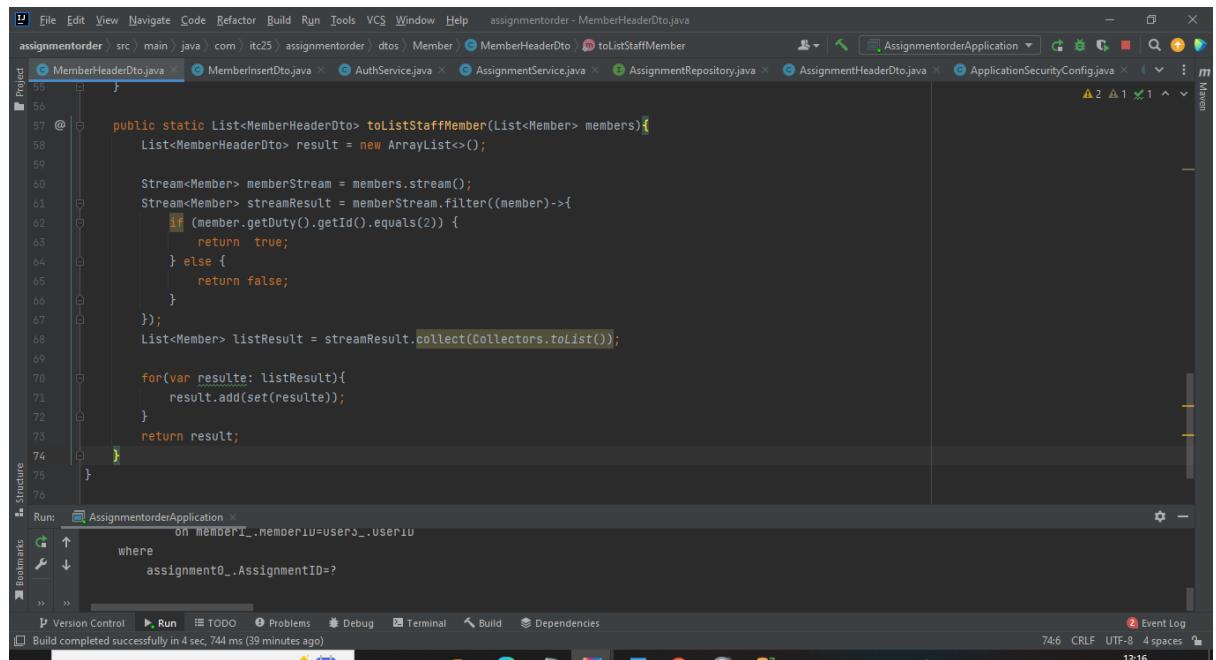
The screenshot shows the Postman application interface. The left sidebar contains collections like 'bootcamp' and environments. The main workspace shows a GET request to 'AssignmentOrder / Assignment / Assignment get by status'. The request URL is {{base\_url}}/assignment/by-status/canceled. The 'Body' tab is selected, displaying a JSON response:

```
1 "data": [
2   {
3     "id": "ARQ/2022/1",
4     "title": "Mempersiapkan ruang",
5     "details": "Mencari ruang sesuai kebutuhan acara kemahasiswaan",
6     "requestDate": "2022-01-12",
7     "dueDate": "2022-01-17",
8     "urgency": "MEDIMUM",
9     "memberIdAdmin": "A01",
10    "memberIdSt": "B01"
11  },
12  ],
13 ]
14 "message": "Berhasil ditemukan",
```

The screenshot shows the Postman application interface. The left sidebar contains collections, APIs, environments, mock servers, monitors, flows, and history. The main workspace shows an assignment order with a GET request for 'Assignment get by year'. The request URL is `((base_url))/assignment/by-year/2022`. The response body is a JSON array containing two assignment objects:

```
1 "data": [
2   {
3     "id": "ARQ/2022/2",
4     "title": "Mempersiapkan perangkat pameran",
5     "details": "Menciptakan persiapan perangkat yang akan di pamerkan dalam acara x dan melakukan pemindahan perangkat",
6     "requestDate": "2022-01-13",
7     "dueDate": "2022-01-17",
8     "urgency": "HIGH",
9     "memberIdAdmin": "A01",
10    "memberIdSt": "B02"
11  },
12  {
13    "id": "ARQ/2022/1",
14    "title": "Mempersiapkan ruang",
15    "details": "Mencari ruang sesuai kebutuhan acara kemahasiswaan",
16    "requestDate": "2022-01-12",
17    "dueDate": "2022-01-17",
18  }
]
```

## 7. Example Java stream usage

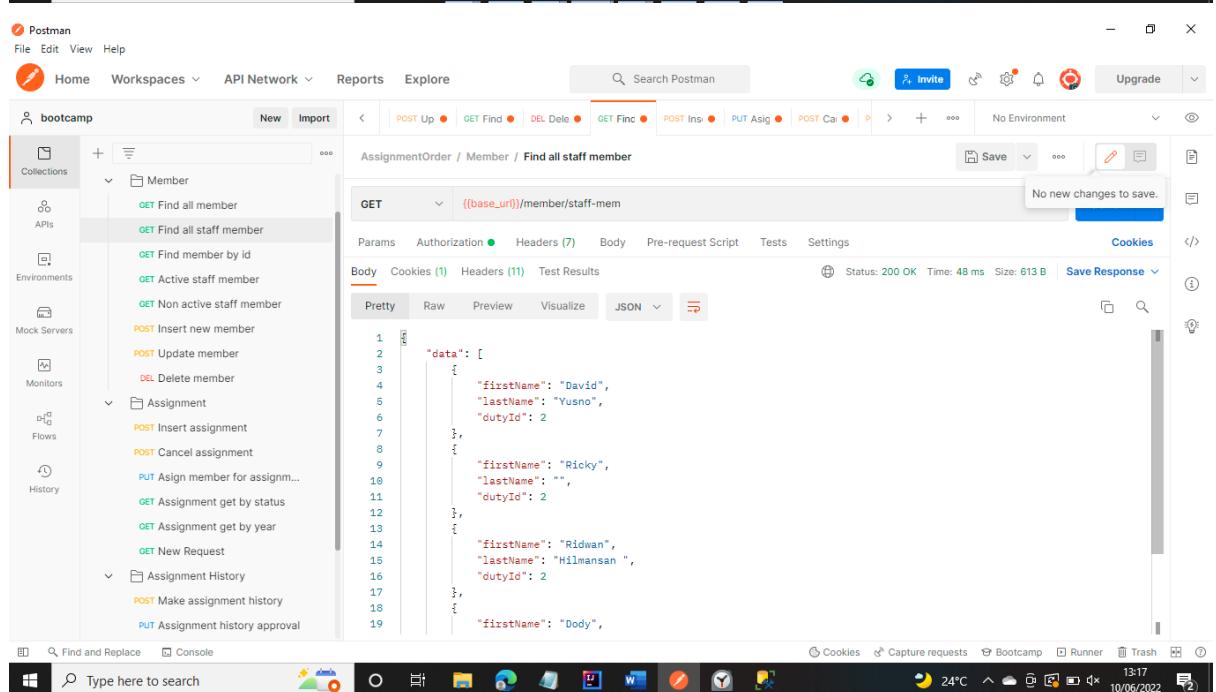


```
public static List<MemberHeaderDto> toListStaffMember(List<Member> members) {
    List<MemberHeaderDto> result = new ArrayList<>();

    Stream<Member> memberStream = members.stream();
    Stream<Member> streamResult = memberStream.filter((member) ->{
        if (member.getDuty().getId().equals(2)) {
            return true;
        } else {
            return false;
        }
    });
    List<Member> listResult = streamResult.collect(Collectors.toList());

    for(var result: listResult){
        result.add(set(result));
    }
    return result;
}
```

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, Help.
- Project Tab:** MemberHeaderDto.java, MemberInsertDto.java, AuthService.java, AssignmentService.java, AssignmentRepository.java, AssignmentHeaderDto.java, ApplicationSecurityConfig.java.
- Code Editor:** Shows the Java code for the `toListStaffMember` method.
- Run Tab:** AssignmentorderApplication, where the query is: `on MEMBER_I_.memberID=USER_I_.userId` and `assignment0_.AssignmentID=?`.
- Toolbars and Status Bar:** Version Control, Run, TODO, Problems, Debug, Build, Dependencies. The status bar shows "Build completed successfully in 4 sec, 744 ms (39 minutes ago)" and "746 CRLF UTF-8 4 spaces".
  


The screenshot shows the Postman application interface with the following details:

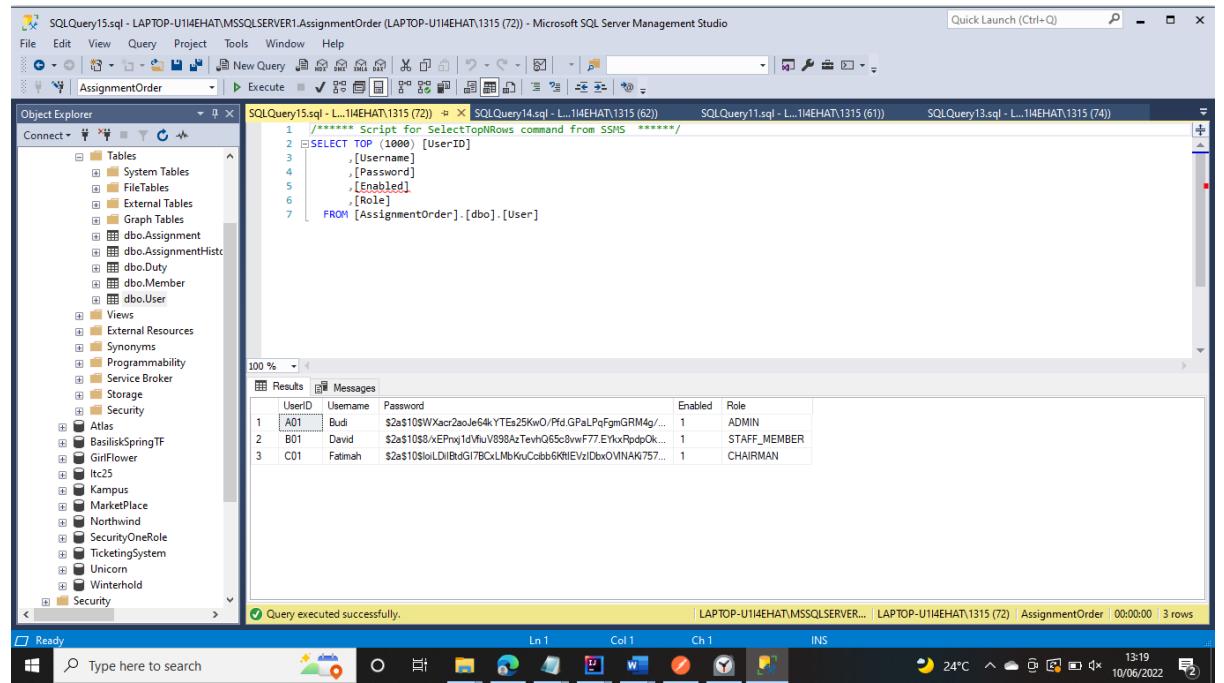
  - Header:** Postman, File, Edit, View, Help.
  - Navigation:** Home, Workspaces, API Network, Reports, Explore.
  - Collection:** bootcamp.
  - Request:** GET /AssignmentOrder / Member / Find all staff member.
  - Body:** Shows a JSON response with the following data:

```
"data": [
    {
        "firstName": "David",
        "lastName": "Yusno",
        "dutyId": 2
    },
    {
        "firstName": "Ricky",
        "lastName": "",
        "dutyId": 2
    },
    {
        "firstName": "Ridwan",
        "lastName": "Hilmansan",
        "dutyId": 2
    },
    {
        "firstName": "Dody"
    }
]
```

  - Status:** 200 OK, Time: 48 ms, Size: 613 B, Save Response.
  - Toolbars and Status Bar:** Find and Replace, Console. The status bar shows "Cookies", "Capture requests", "Bootcamp", "Runner", "Trash", "24°C", "13:17", and "10/06/2022".

## 8. Penggunaan login dengan otoritas berbeda

### - Membuat user



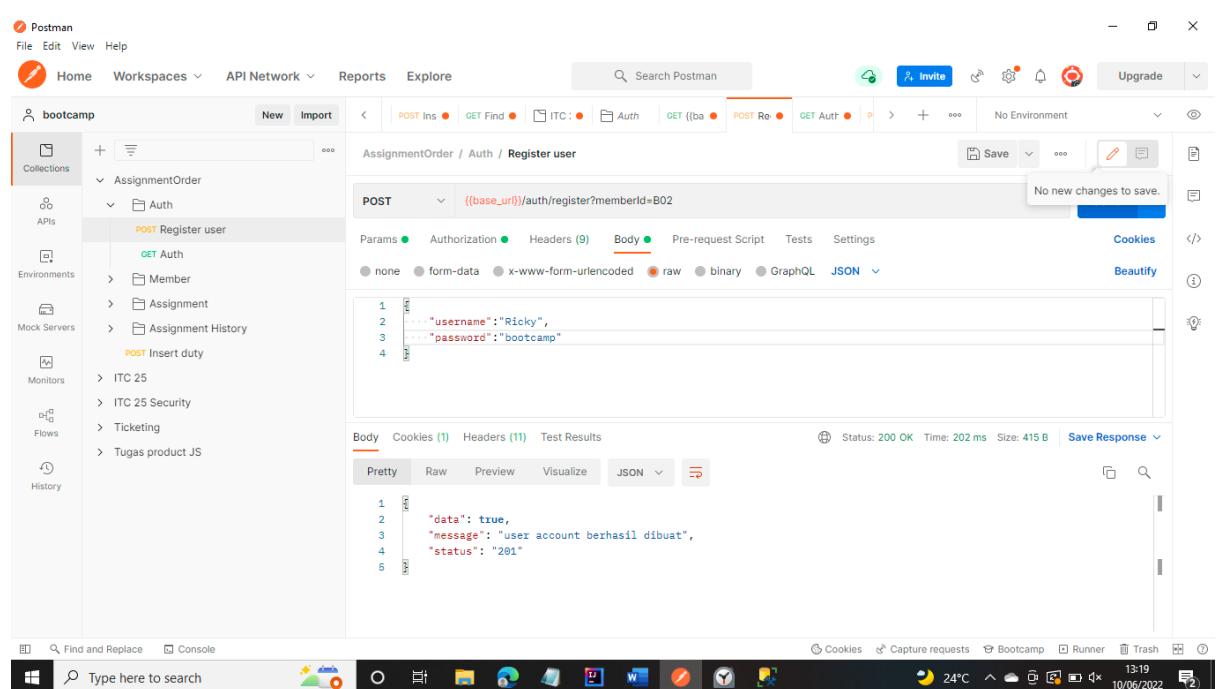
SQLQuery15.sql - LAPTOP-U1I4EHAT\MSQLSERVER1.AssignmentOrder (LAPTOP-U1I4EHAT\1315 (72)) - Microsoft SQL Server Management Studio

```
1 /*===== Script for SelectTopNRows command from SSMS =====*/
2 SELECT TOP (1000) [UserID]
3     ,[Username]
4     ,[Password]
5     ,[Enabled]
6     ,[Role]
7  FROM [AssignmentOrder].[dbo].[User]
```

Results

UserID	Username	Password	Enabled	Role
A01	Budi	\$2a\$10\$Wxcer2aoJe64kYTEa25KwO/PfdGPaLpFgmGRM4g...	1	ADMIN
B01	David	\$2a\$10\$9xEPng1dVluV890AzTvhQ5c5vwF77.EvfxRpdpOk...	1	STAFF_MEMBER
C01	Falimah	\$2a\$10\$loIDtBtG7BCxLmbKuClibb6KtIEVzIDbxOMNAK757...	1	CHAIRMAN

Query executed successfully.



Postman

AssignmentOrder / Auth / Register user

POST `((base_url))/auth/register?memberId=B01`

Body (JSON)

```
1 {
2     "username": "Ricky",
3     "password": "bootcamp"
4 }
```

Status: 200 OK Time: 202 ms Size: 415 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2     "data": true,
3     "message": "User account berhasil dibuat",
4     "status": "201"
5 }
```

SQLQuery15.sql - LAPTOP-U114EHAT\MSQLSERVER1.AssignmentOrder (LAPTOP-U114EHAT\1315 (72)) - Microsoft SQL Server Management Studio

```

1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [UserID]
3     ,[Username]
4     ,[Password]
5     ,[Enabled]
6     ,[Role]
7  FROM [AssignmentOrder].[dbo].[User]

```

Results Messages

	UserID	Username	Password	Enabled	Role
1	A01	Budi	\$2a\$10\$Wxacr2aoJe64kYTEs25Kw0/PfdGPaLPqFgmGRM4g...	1	ADMIN
2	B01	David	\$2a\$10\$9xePnq1dVfuV98AzTewhQ5c5vwF77ExxRpdOk...	1	STAFF_MEMBER
3	B02	Ricky	\$2a\$10\$9JW6quvKMV.TqFHQcA/eo22nN6/Tn0T7BhLbgK...	1	STAFF_MEMBER
4	C01	Fatimah	\$2e\$10\$loLDiBdG7BCxLMbKuCbbb6KRIEvzIbxEWNNAK757...	1	CHAIRMAN

Query executed successfully.

## - Mengecek otoritas

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

bootcamp AssignmentOrder / Auth / Auth

GET {{base\_url}}/auth

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Basic Auth Username Budi

The authorization header will be automatically generated when you send the request.

Body Cookies (1) Headers (11) Test Results

Pretty Raw Preview Visualize JSON

```

1 "authorities": [
2     {
3         "authority": "ROLE_ADMIN"
4     }
5 ],
6 "details": [
7     {
8         "remoteAddress": "0:0:0:0:0:0:0:1",
9         "sessionId": "915E428C626C269846AD38784C4B69F6"
10 }
11 ]

```

Save > + > No Environment Cookies Capture requests Bootcamp Runner Trash

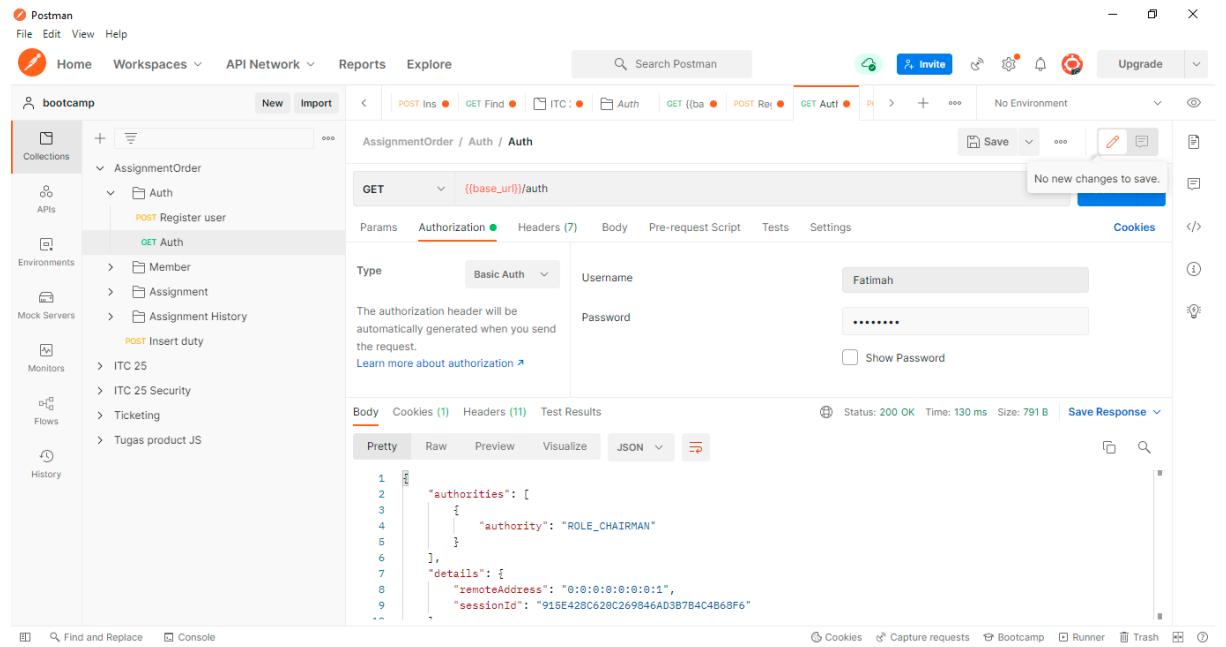
The screenshot shows the Postman application interface. On the left, there's a sidebar with sections for Home, Workspaces, API Network, Reports, and Explore. Below that are sections for Collections, APIs, Environments, Mock Servers, Monitors, Flows, and History. The main area shows a collection named 'bootcamp' with a sub-collection 'AssignmentOrder' containing an 'Auth' folder. Inside 'Auth' is a 'GET /auth' request. The 'Authorization' tab is selected, showing 'Basic Auth' with 'Username' set to 'David' and 'Password' redacted. A note says the password will be automatically generated. The 'Body' tab shows a JSON response:

```
1 "authorities": [
2   {
3     "authority": "ROLE_STAFF_MEMBER"
4   }
5 ],
6 "details": [
7   "remoteAddress": "0:0:0:0:0:0:1",
8   "sessionId": "915E428C620C269846AD3B7B4C4B6F6"
9 ]
```

The screenshot shows the Postman application interface. On the left, there's a sidebar with sections for Collections, APIs, Environments, Mock Servers, Monitors, Flows, and History. The main area displays a collection named 'bootcamp' with an 'AssignmentOrder' folder containing an 'Auth' folder. Inside 'Auth', there are two requests: 'POST Register user' and 'GET Auth'. The 'GET Auth' request is currently selected. The 'Authorization' tab is active, showing basic auth credentials with 'Username' as 'Fatimah' and 'Password' as '\*\*\*\*\*'. Below that, there's a note about automatically generating the authorization header. The 'Body' tab shows a JSON response:

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```

- Percobaan fungsi aplikasi dengan user berbeda

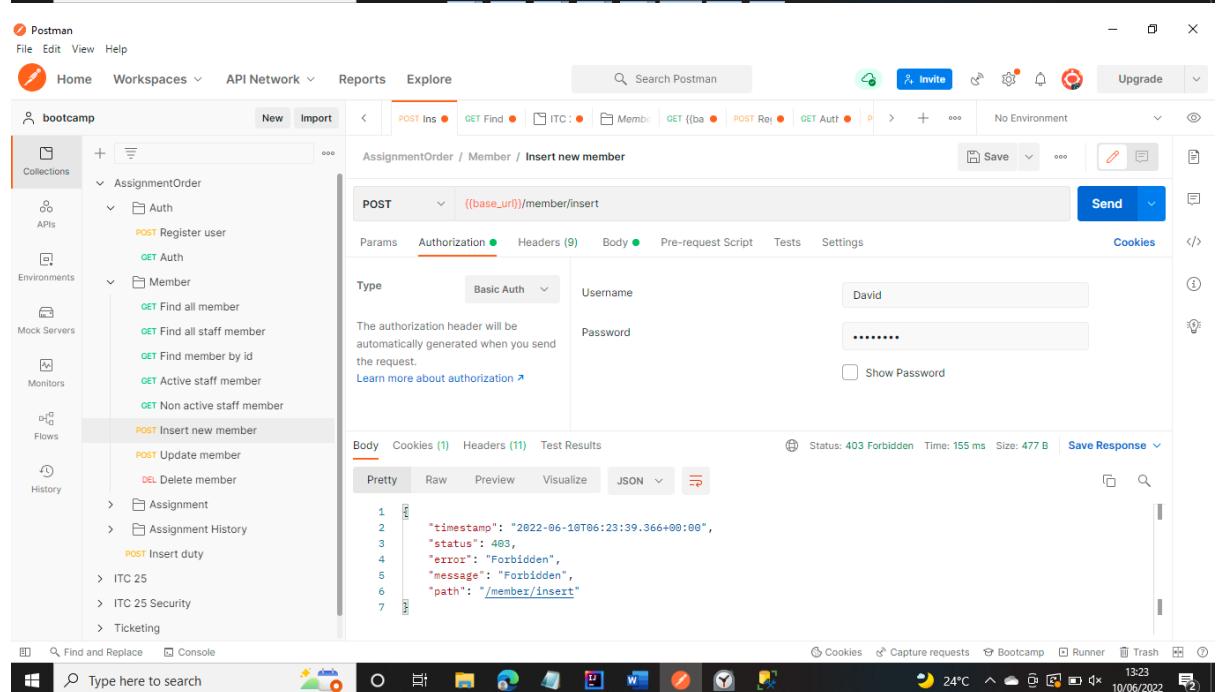


The screenshot shows the Postman interface with a collection named 'bootcamp'. In the 'Auth' section, a GET request to `((base_url))/auth` is configured with basic authentication for 'Fatimah' and a password. The response status is 200 OK, and the JSON body contains:

```

1
2   "authorities": [
3     {
4       "authority": "ROLE_CHAIRMAN"
5     }
6   ],
7   "details": {
8     "remoteAddress": "0:0:0:0:0:0:1",
9     "sessionId": "915E42BC628C269846AD38784CAB6F6"

```

The screenshot shows the Postman interface with the same 'bootcamp' collection. In the 'Member' section, a POST request to `((base_url))/member/insert` is configured with basic authentication for 'David' and a password. The response status is 403 Forbidden, and the JSON body contains:

```

1
2   "timestamp": "2022-06-10T06:23:39.366+00:00",
3   "status": 403,
4   "error": "Forbidden",
5   "message": "Forbidden",
6   "path": "/member/insert"

```

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

AssignmentOrder / Member / Insert new member

POST {{base\_url}}/member insert

Type Basic Auth Username Fatimah

The authorization header will be automatically generated when you send the request.

Body Cookies (1) Headers (11) Test Results

```

1 "timestamp": "2022-06-10T06:23:49.894+00:00",
2 "status": 403,
3 "error": "Forbidden",
4 "message": "Forbidden",
5 "path": "/member/insert"
6
7
  
```

Body Raw Preview Visualize JSON

Body Cookies (1) Headers (11) Test Results

Status: 403 Forbidden Time: 124 ms Size: 477 B Save Response

Find and Replace Console

Windows Taskbar: Type here to search, Start button, File Explorer, Mail, Photos, Videos, Task View, Taskbar icons, 13:23, 24°C, 10/06/2022

SQLQuery15.sql - LAPTOP-U114EHAT\MSQLSERVER1.AssignmentOrder (LAPTOP-U114EHAT\1315 (72)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

Tables System Tables FileTables External Tables Graph Tables dbo.Assignment dbo.AssignmentHistory dbo.Duty dbo.Member dbo.User Views External Resources Synonyms Programmability Service Broker Storage Security

SQLQuery15.sql - L...114EHAT\1315 (72) SQLQuery14.sql - L...114EHAT\1315 (62) SQLQuery11.sql - L...114EHAT\1315 (61) SQLQuery13.sql - L...114EHAT\1315 (74)

```

1 /*===== Script for SelectTopNRows command from SSMS =====*/
2 SELECT TOP (1000) [UserID]
3   ,[Username]
4   ,[Password]
5   ,[Enabled]
6   ,[Role]
7  FROM [AssignmentOrder].[dbo].[User]
  
```

Results Messages

	UserID	Username	Password	Enabled	Role
1	A01	Budi	\$2a\$10\$Wxacr2eJe64kYTEa25KwO/PfdGPaLPqFgmGRM4g/...	1	ADMIN
2	B01	David	\$2a\$10\$8/xPrnj1dVfu/V998AzTewQ85c3vwF77.EY1xRpdOk...	1	STAFF_MEMBER
3	B02	Ricky	\$2a\$10\$quW6quvvKMV.TqFHQcA/eO2nuN6/TnIoT7BhLbgK...	1	STAFF_MEMBER
4	C01	Fatimah	\$2a\$10\$loLDIBtG17BCxLMbKuCibb6KRIEVzIDbxOVNAk757...	1	CHAIRMAN

Query executed successfully.

LAPTOP-U114EHAT\MSQLSERVER1 LAPTOP-U114EHAT\1315 (72) AssignmentOrder 00:00:00 | 4 rows

Windows Taskbar: Type here to search, Start button, File Explorer, Mail, Photos, Videos, Task View, Taskbar icons, 13:24, 24°C, 10/06/2022

## ERD

