

Nama : Kevin Lie

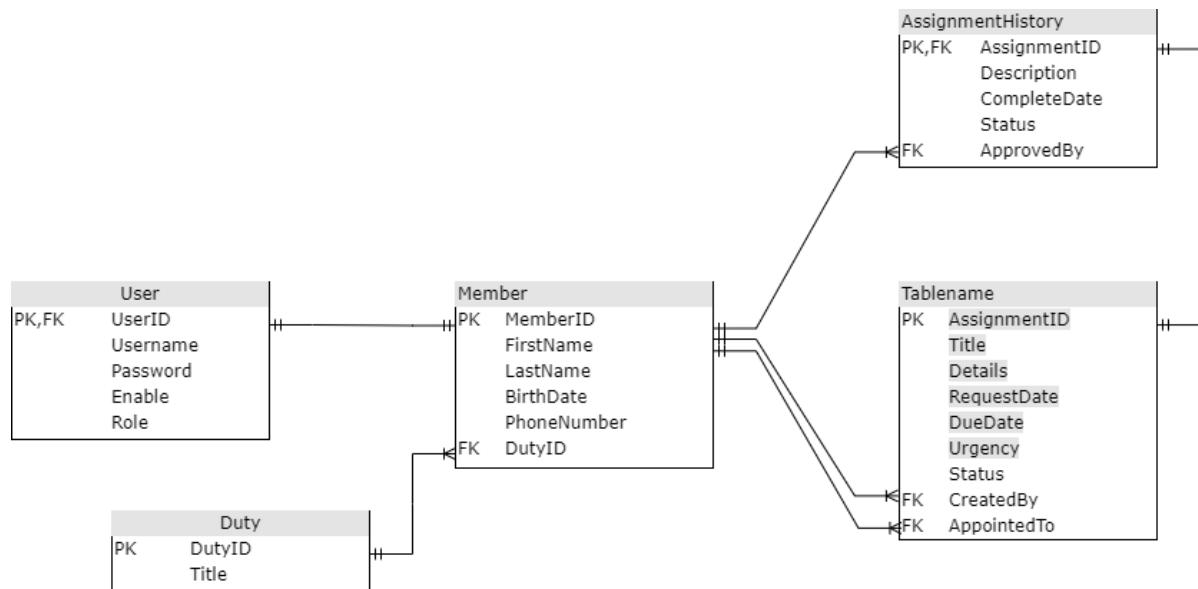
Project yang dibuat merupakan mini project spring boot yang diperuntukan untuk membantu dalam mencatat dan melacak detail kegiatan yang dilakukan suatu divisi

(code B Staff member di aplikasi - ketua divisi)

(Code A Admin di aplikasi - mengatur kegiatan aplikasi – membuat assignment ticket)

(Code C Chairman organisasi - memfinalisasi approval assignment ticket)

ERD



Nama : Kevin Lie

Kerja Aplikasi

1. Contoh crud (pada member)

- Menambahkan member

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the 'Tables' node is expanded, showing various system and user-defined tables. In the center pane, a query window displays the following SQL code:

```
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 6 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	Kharisma	2000-04-17	08112698214	2
6	C01	Fatimah	Kristiani	2000-07-12	08139276356	3

At the bottom of the results pane, it says "Query executed successfully."

The screenshot shows the Postman application interface. On the left, the 'Collections' sidebar is open, showing various API endpoints under the 'bootcamp' collection. In the center, the 'AssignmentOrder / Member / Insert new member' endpoint is selected. The 'POST' tab is active, showing the following JSON body:

```
1 {
2     "id": "B05",
3     "firstName": "Diana",
4     "lastName": "Wardhani",
5     "birthDate": "29/07/2000",
6     "phone": "08112893732"
7 }
```

The 'Body' tab shows the raw JSON response:

```
1 {
2     "data": true,
3     "message": "Berhasil membuat entitas",
4     "status": "201"
5 }
```

At the bottom, the status bar indicates "Status: 201 Created Time: 113 ms Size: 416 B Save Response".

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The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the 'master' database is selected. In the center pane, a query window displays the following T-SQL script:

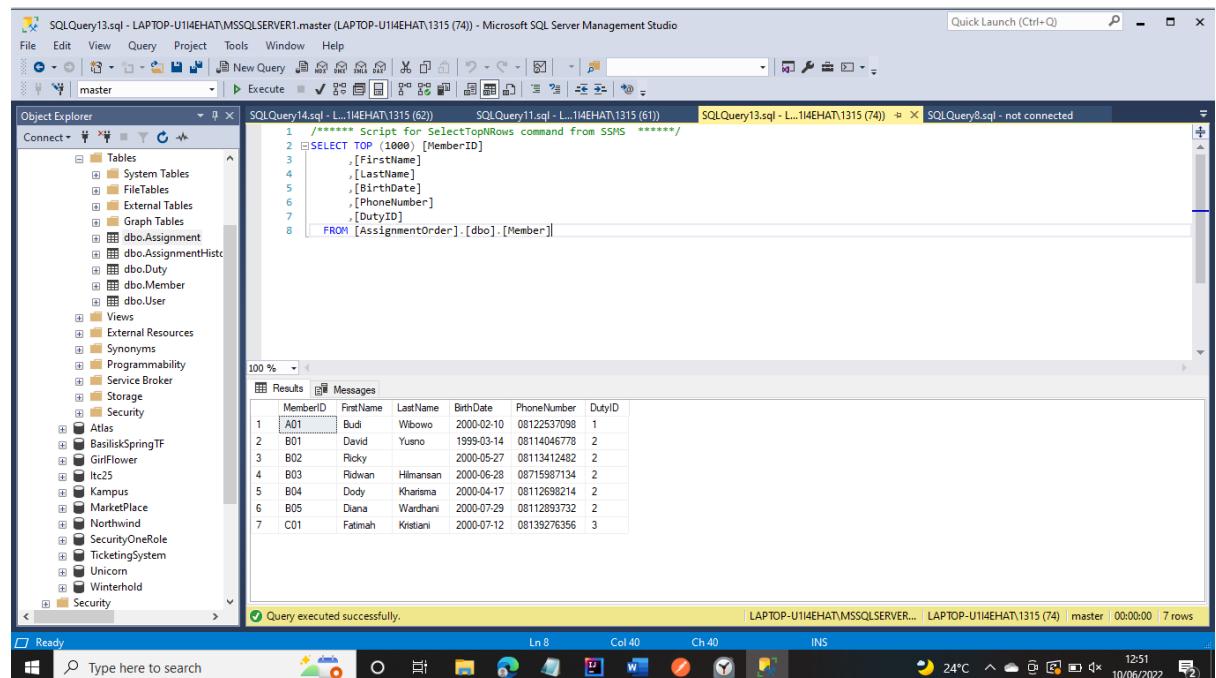
```
1 /*===== Script for SelectTopNRows command from SSMS =====*/
2 SELECT TOP (1000) [MemberID]
3     ,[FirstName]
4     ,[LastName]
5     ,[BirthDate]
6     ,[PhoneNumber]
7     ,[DutyID]
8 FROM [AssignmentOrder].[dbo].[Member]
```

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

	MemberID	FirstName	LastName	BirthDate	PhoneNumber	DutyID
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	Himansan	2000-06-28	08115987134	2
5	B04	Dody	Kharisma	2000-04-17	08112698214	2
6	B05	Diana	Wardhani	2000-07-29	08112893732	2
7	C01	Fatimah	Kristiani	2000-07-12	08139276356	3

Below the results, a message indicates "Query executed successfully." The status bar at the bottom right shows the date and time: 10/06/2022 12:51.

- Melakukan Update



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the 'Tables' node is expanded, showing various system and user-defined tables. In the center pane, a query window displays the following SQL script:

```

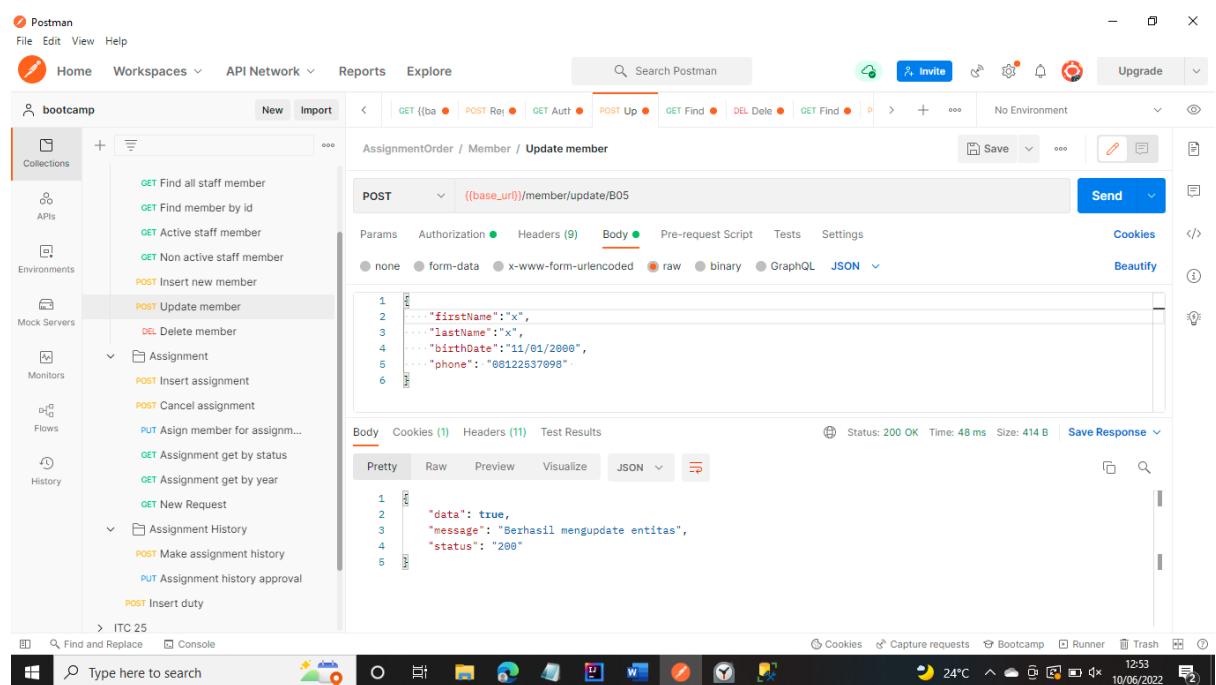
1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [MemberID]
3     ,[FirstName]
4     ,[LastName]
5     ,[BirthDate]
6     ,[PhoneNumber]
7     ,[DutyID]
8  FROM [AssignmentOrder].[dbo].[Member]

```

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	Hilmanan	2000-06-28	08715987134	2
B04	Dody	Khartama	2000-04-17	08112698214	2
B05	Diana	Wardhani	2000-07-29	08112893732	2
C01	Fatmah	Kristiani	2000-07-12	08139276356	3

Below the results, a message states "Query executed successfully." The status bar at the bottom indicates the query took 0:00:00 and returned 7 rows.



The screenshot shows the Postman application interface. On the left, the 'bootcamp' environment is selected, displaying a list of API endpoints under the 'Members' collection. One endpoint is highlighted: 'POST {{base_url}}/member/update/B05'. The 'Body' tab is selected, showing a JSON payload:

```

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

```

The 'Body' tab also shows the response received from the API, which includes a status code of 200 OK and a message indicating the update was successful.

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The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "SQLQuery13.sql - LAPTOP-U114EHAT\mssqlserver1.master (LAPTOP-U114EHAT\1315 (74)) - Microsoft SQL Server Management Studio". The Object Explorer sidebar on the left lists various database objects like Tables, System Tables, External Tables, etc. In the center, there are three tabs: "SQLQuery14.sql - L..114EHAT\1315 (62)", "SQLQuery11.sql - L..114EHAT\1315 (61)", and "SQLQuery13.sql - L..114EHAT\1315 (74)". The "SQLQuery13.sql" tab contains the following T-SQL script:

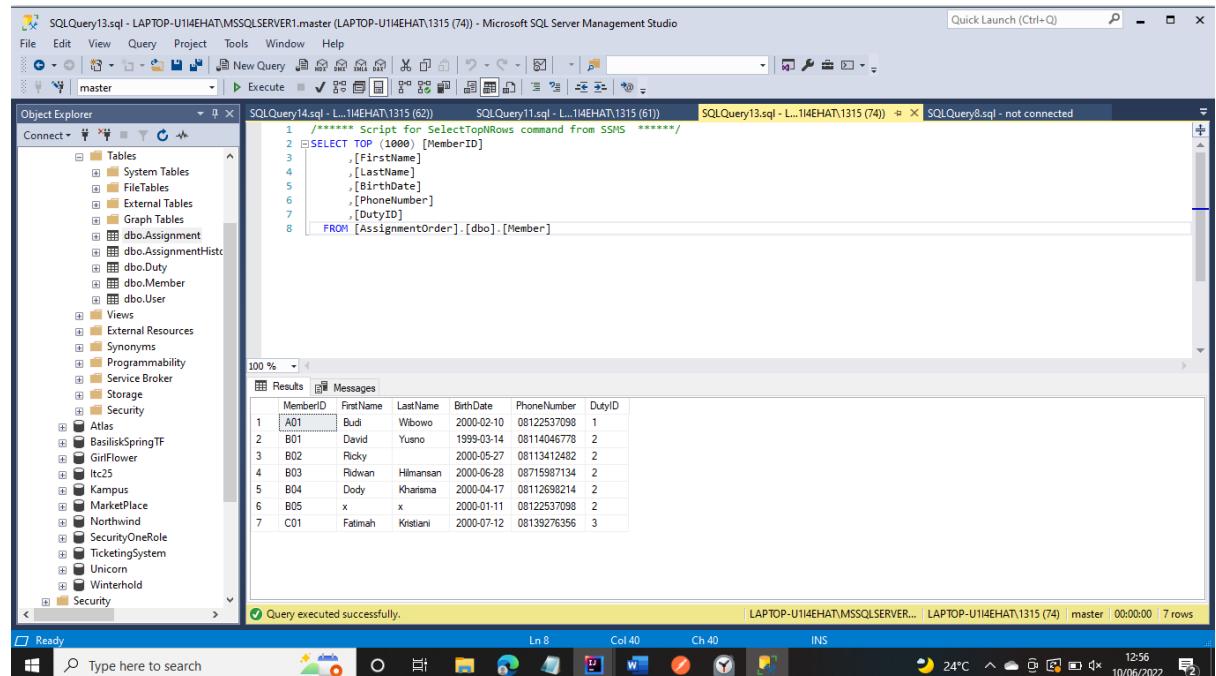
```
1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [MemberID]
3     ,[FirstName]
4     ,[LastName]
5     ,[BirthDate]
6     ,[PhoneNumber]
7     ,[DutyID]
8 FROM [AssignmentOrder].[dbo].[Member]
```

The results pane below 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	Hilmanean	2000-06-28	08715987134	2
5	B04	Dody	Khatisma	2000-04-17	08112698214	2
6	B05	x	x	2000-01-11	08122537098	2
7	C01	Falma	Kristiani	2000-07-12	08139276356	3

At the bottom of the results pane, a message says "Query executed successfully." The taskbar at the bottom of the screen shows the Windows Start button, a search bar, and several pinned icons.

- Melakukan delete



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, several databases are listed, including master, msdb, tempdb, and others. In the center pane, a query window displays the following T-SQL code:

```

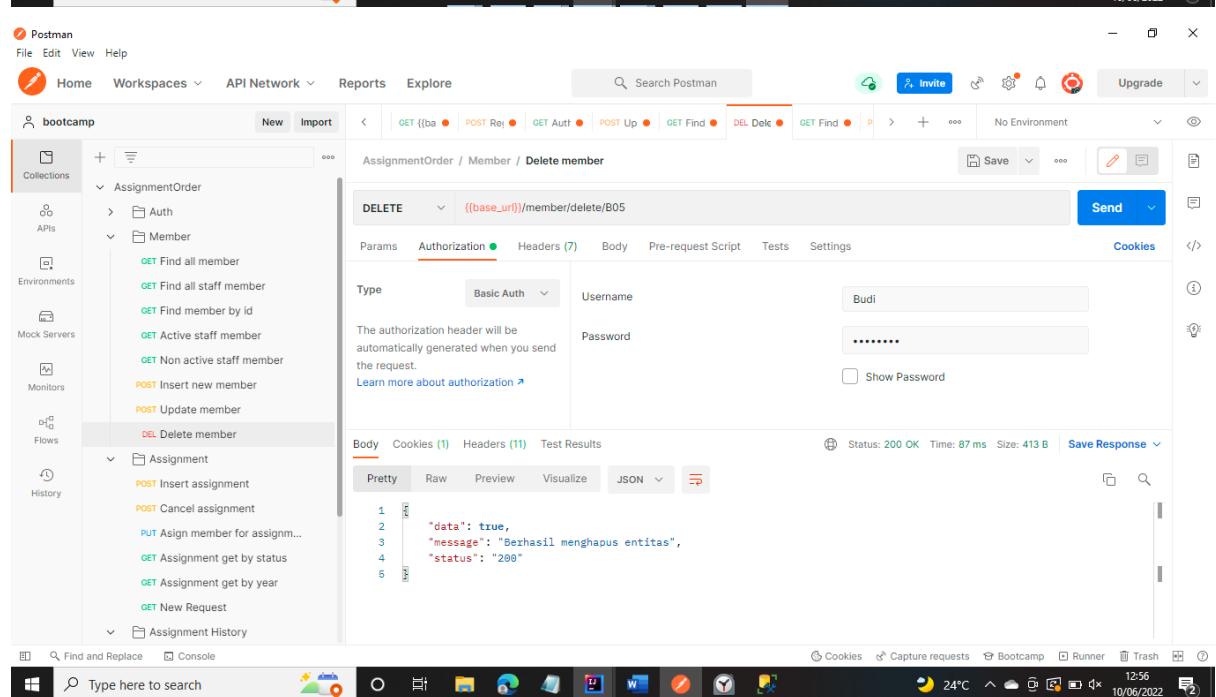
1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [MemberID]
3     ,[FirstName]
4     ,[LastName]
5     ,[BirthDate]
6     ,[PhoneNumber]
7     ,[DutyID]
8  FROM [AssignmentOrder].[dbo].[Member]

```

The results grid shows a table with columns: MemberID, FirstName, LastName, BirthDate, PhoneNumber, and DutyID. The data is as follows:

	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	Khartama	2000-04-17	08112698214	2
6	B05	x	x	2000-01-11	08122537098	2
7	C01	Fatmah	Kristiani	2000-07-12	08139276356	3

Below the results, a message states "Query executed successfully."



The screenshot shows the Postman application interface. On the left, there is a sidebar with collections, environments, and other settings. The main area shows a collection named "bootcamp". Under the "Member" section, there is a "DELETE" request labeled "Delete member". The URL is set to `((base_url))/member/delete/B05`. The "Authorization" tab is selected, showing basic authentication with "Username" Budi and "Password" (redacted). The response status is 200 OK, and the JSON body is:

```

{
  "data": true,
  "message": "Berhasil menghapus entitas",
  "status": "200"
}

```

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The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "SQLQuery13.sql - LAPTOP-U114EHAT\mssqlserver1.master (LAPTOP-U114EHAT\1315 (74)) - Microsoft SQL Server Management Studio". The Object Explorer sidebar on the left lists various database objects like Tables, System Tables, External Tables, etc. In the center, there are three tabs: "SQLQuery14.sql - L..114EHAT\1315 (62)", "SQLQuery11.sql - L..114EHAT\1315 (61)", and "SQLQuery13.sql - L..114EHAT\1315 (74)". The "SQLQuery13.sql" tab contains the following T-SQL 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 below shows a table with six 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	Hilmanean	2000-06-28	08715987134	2
5	B04	Dody	Khatrima	2000-04-17	08112698214	2
6	C01	Fatimah	Kristiani	2000-07-12	08139276356	3

Below the results, a message states "Query executed successfully." The status bar at the bottom right shows "LAPTOP-U114EHAT\mssqlserver1 master 00:00:00 | 6 rows" and the system date and time as "10/06/2022 12:56 24°C".

2. Membuat assignment

The screenshot displays two windows side-by-side. On the left is the Postman application, which is a tool for testing APIs. In the center of the Postman window, there is a request configuration for a POST method to the endpoint `((base_url))/assignment/insert`. The 'Body' tab is selected, showing a JSON payload:

```

1   {
2     "title": "Mempersiapkan ruang",
3     "details": "Mencari ruang sesuai kebutuhan acara kemahasiswaan",
4     "requestDate": "12/01/2022",
5     "dueDate": "27/01/2022",
6     "urgency": "medium"
7   }
  
```

Below the body, the response status is shown as 200 OK with a response message: "data: true, message: 'Berhasil membuat entitas', status: '200'".

On the right is Microsoft SQL Server Management Studio (SSMS), showing the Object Explorer and a query editor. The query editor contains a script for selecting top 1000 rows from the `Assignment` table in the `dbo` schema. The results pane shows one row of data:

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

At the bottom of the SSMS window, a message indicates: "Query executed successfully."

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3. Assign staff member to assignment

The screenshot displays two windows side-by-side. The top window is Postman, showing a collection named 'bootcamp' with various API endpoints. The 'Assignment' endpoint is selected, and a PUT request is being made to `((base_url))/assignment/put-ad-st?assignmentId=ARQ/2022/1&memberIdAd=A01&memberIdSt=B01`. The request includes three parameters: assignmentId (ARQ/2022/1), memberIdAd (A01), and memberIdSt (B01). The response status is 200 OK, and the JSON body is:

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

The bottom window is Microsoft SQL Server Management Studio (SSMS) showing the Object Explorer and a query results grid. The query is:

```
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 grid shows one row of data:

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

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4. Assignment cancel example

The screenshot displays two side-by-side applications: Postman and Microsoft SQL Server Management Studio (SSMS).

Postman (Left):

- Header:** Postman, File, Edit, View, Help.
- Left Sidebar:** Home, Workspaces, API Network, Reports, Explore, Collections, APIs, Environments, Mock Servers, Monitors, Flows, History.
- Central Area:** AssignmentOrder / Assignment / Cancel assignment (POST method).
 - Authorization:** Basic Auth (Username: Budi, Password: Budi).
 - Body:** JSON response showing successful cancellation.

```
1 "data": true,
2 "message": "Assignment berhasil dicancel",
3 "status": "201"
```
- Bottom:** Status: 200 OK, Time: 64 ms, Size: 415 B, Save Response.

Microsoft SQL Server Management Studio (SSMS) (Right):

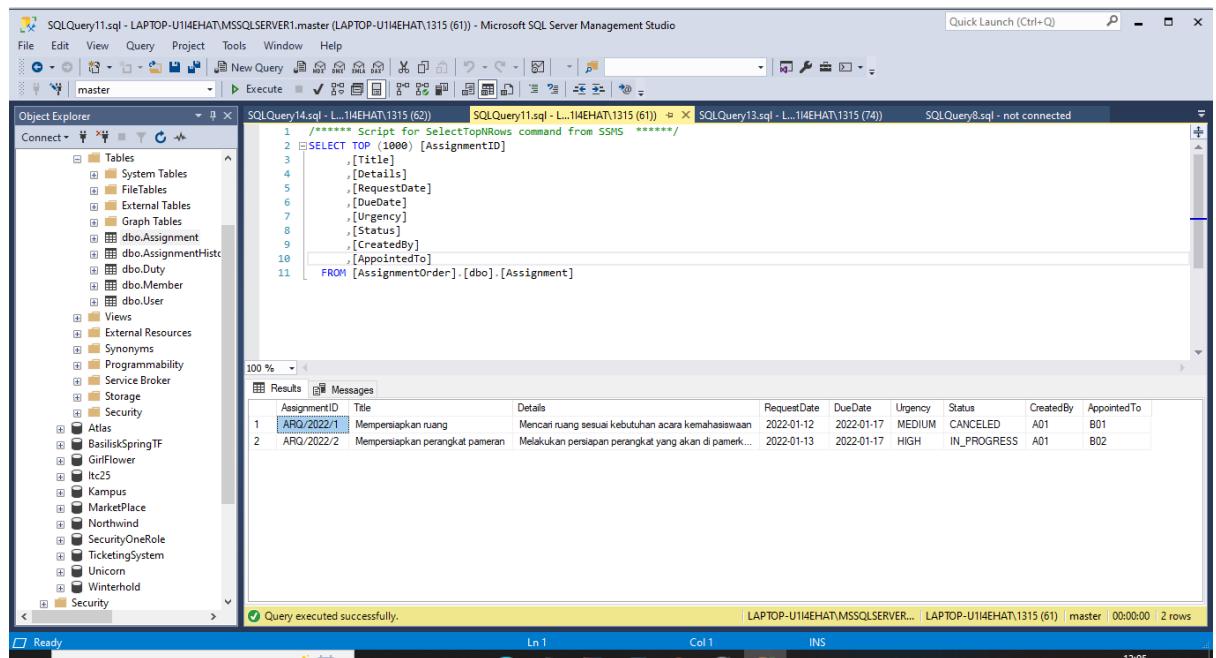
- Header:** Type here to search, Find and Replace, Console.
- Toolbar:** Cookies, Capture requests, Bootcamp, Runner, Trash, 24°C, 13:04, 10/06/2022.
- Object Explorer:** Shows the master database structure with tables like Assignment, AssignmentHistory, and User.
- Query Editor:** Shows a T-SQL script for selecting assignments from the Assignment table.

```
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:** Displays the results of the query, showing two rows of assignment data.

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	Melakukan persiapan perangkat yang akan dipamerkan	2022-01-13	2022-01-17	HIGH	IN_PROGRESS	A01	B02

- Bottom:** Query executed successfully.

5. Assignment complete example dan approval



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, there is a tree view of database objects under the 'master' database, including Tables, Views, and Procedures. A query window titled 'SQLQuery14.sql - L...114EHAT\1315 (62)' contains the following T-SQL code:

```

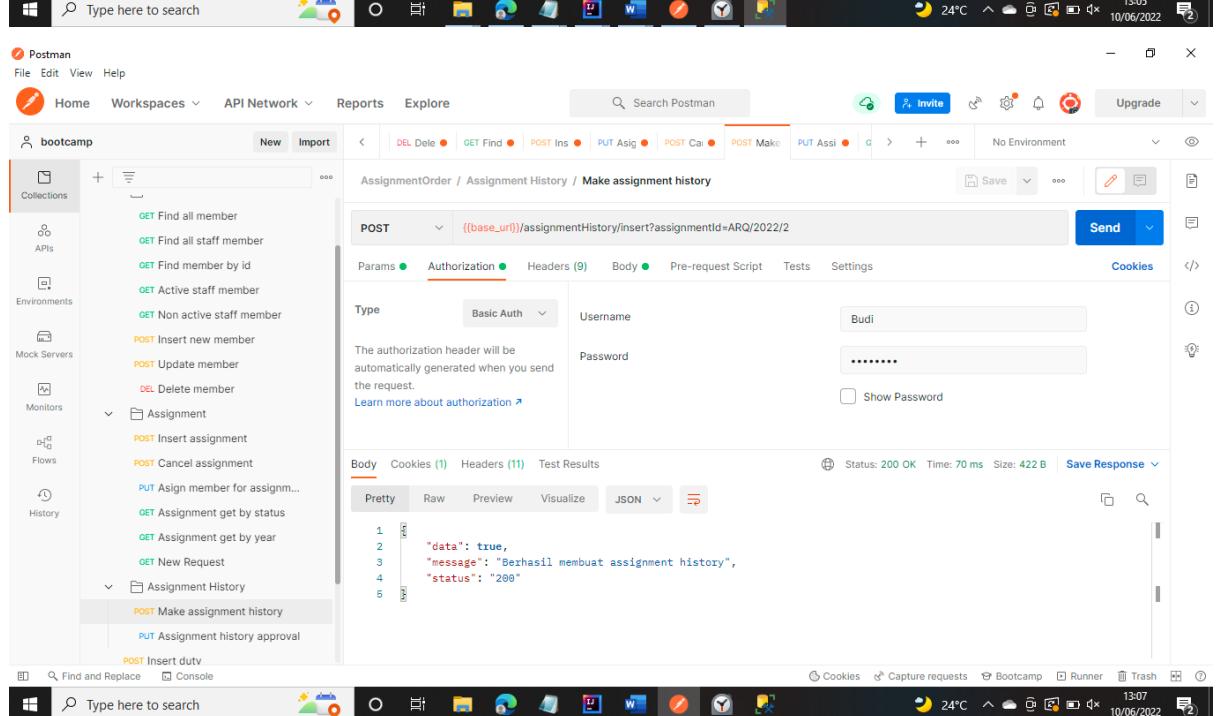
1  /****** Script for SelectTopNRows command from SSMS *****/
2  SELECT TOP (1000) [AssignmentID]
3      ,[Title]
4      ,[Details]
5      ,[RequestDate]
6      ,[DueDate]
7      ,[Urgency]
8      ,[Status]
9      ,[CreatedBy]
10     ,[AppointedTo]
11  FROM [AssignmentOrder].[dbo].[Assignment]

```

The results grid shows two rows of assignment data:

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	Melakukan persiapan perangkat yang akan di pamer...	2022-01-13	2022-01-17	HIGH	IN_PROGRESS	A01	B02

Below the results, a message bar indicates: "Query executed successfully." The status bar at the bottom right shows the date and time: "10/06/2022 13:05".



The screenshot shows the Postman application interface. On the left, the 'bootcamp' collection is expanded to show 'Assignment' and 'Assignment History' sections. Under 'Assignment History', the 'POST Make assignment history' endpoint is selected. The 'Authorization' tab is active, showing 'Basic Auth' with 'Username' set to 'Budi' and 'Password' set to '*****'. The 'Body' tab shows a JSON response with the following content:

```

1  {
2      "data": true,
3      "message": "Berhasil membuat assignment history",
4      "status": "200"
5  }

```

The status bar at the bottom right shows the date and time: "10/06/2022 13:07".

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The image shows two separate sessions in Microsoft SQL Server Management Studio (SSMS) running on a Windows 10 desktop.

Session 1 (Top):

- Query:**

```
1 /****** Script for SelectTopNRows command from SSMS *****\n2 SELECT TOP (1000) [AssignmentID]\n3     ,[Title]\n4     ,[Details]\n5     ,[RequestDate]\n6     ,[...\n7     ,[Status]\n8     ,[CreatedBy]\n9     ,[AppointedTo]\n10    FROM [AssignmentOrder].[dbo].[Assignment]
```

- Results:**

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

- Message:** Query executed successfully.

Session 2 (Bottom):

- Query:**

```
1 /****** Script for SelectTopNRows command from SSMS *****\n2 SELECT TOP (1000) [AssignmentID]\n3     ,[Description]\n4     ,[CompletedDate]\n5     ,[Status]\n6     ,[ApprovedBy]\n7    FROM [AssignmentOrder].[dbo].[AssignmentHistory]
```

- Results:**

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

- Message:** Query executed successfully.

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Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Search Postman

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 Fatiimah Password ***** Show Password

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 179 ms Size: 417 B Save Response

Pretty Raw Preview Visualize JSON

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

Find and Replace Console

Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

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

Quick Launch (Ctrl+Q)

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

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

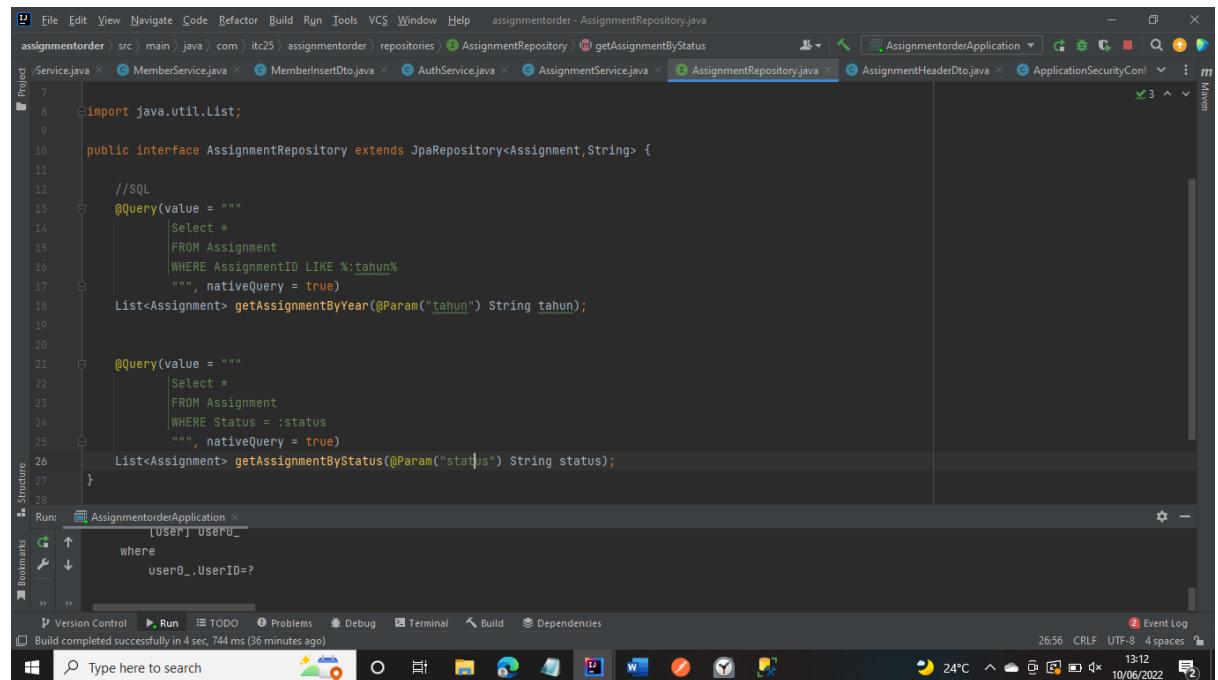
Nama : Kevin Lie

The screenshot shows the Postman application interface. On the left, the sidebar displays collections, APIs, environments, mock servers, monitors, flows, and history. The main workspace shows a collection named "bootcamp". A specific POST request titled "Cancel assignment" is selected. The request details show a POST method with the URL `[[base_url]]/assignment/cancel?assignmentId=ARQ/2022/2`. The "Authorization" tab is active, showing "Basic Auth" with "Username" set to "Budi" and "Password" set to "*****". The "Body" tab contains a JSON response:

```
1   {
2     "timestamp": "2022-06-10T06:11:56.319+00:00",
3     "status": 404,
4     "error": "Not Found",
5     "message": "id tidak ditemukan atau assignment yang ditunjuk telah selesai tidak dapat digagalkan",
6     "path": "/assignment/cancel"
7 }
```

The status bar at the bottom indicates a 404 Not Found error with a timestamp of 13:11 on 10/06/2022.

6. Example native query usage



```

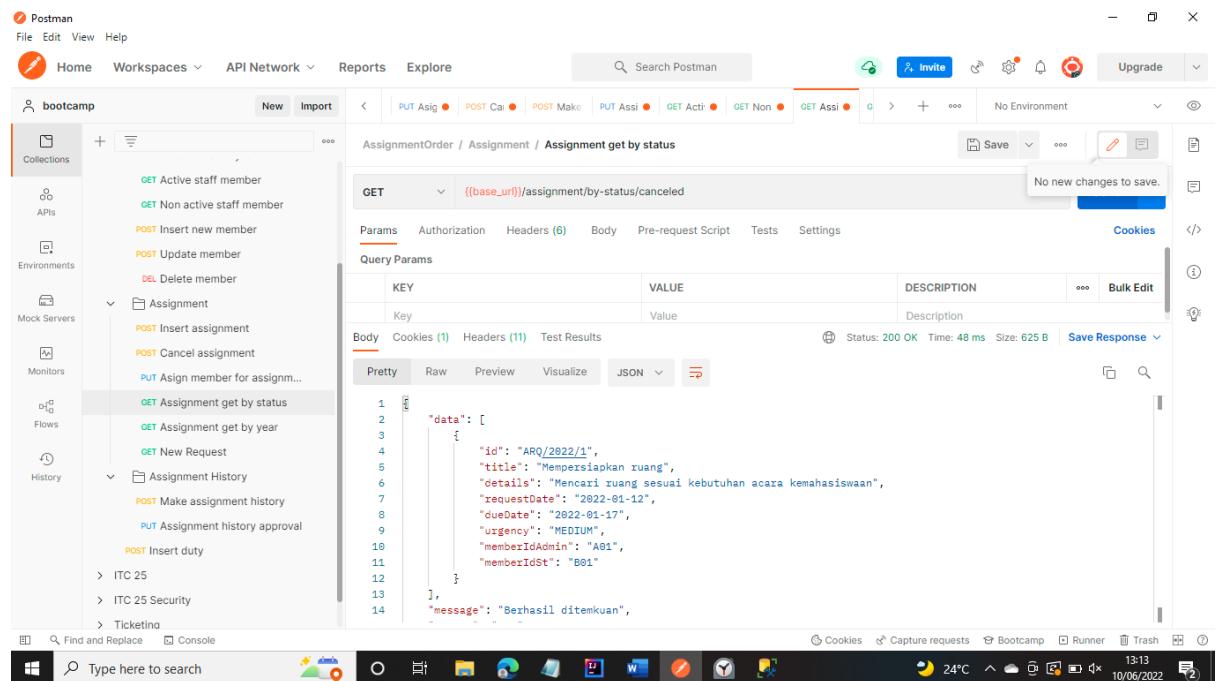
import java.util.List;

public interface AssignmentRepository extends JpaRepository<Assignment, String> {

    //SQL
    @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);
}

```



AssignmentOrder / Assignment / Assignment get by status

GET `((base_url))/assignment/by-status/canceled`

KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	

```

1
2     "data": [
3         {
4             "id": "ARQ/2022/1",
5             "title": "Mempersiapkan ruang",
6             "details": "Mencari ruang sesuai kebutuhan acara kemahasiswaan",
7             "requestDate": "2022-01-12",
8             "dueDate": "2022-01-17",
9             "urgency": "MEDIUM",
10            "memberIdAdmin": "A01",
11            "memberIdDst": "B01"
12        }
13    ],
14    "message": "Berhasil ditemukan",
15

```

Nama : Kevin Lie

The 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'. Under 'Assignment' in the 'bootcamp' collection, the 'GET Assignment get by year' endpoint is selected. The main panel displays a GET request with the URL `[[base_url]]/assignment/by-year/2022`. The response status is 200 OK, with a response time of 41ms and a size of 908 B. The response body is shown in JSON format:

```
1   "data": [
2     {
3       "id": "ARQ/2022/2",
4       "title": "Mempersiapkan perangkat pameran",
5       "details": "Melakukan 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      "memberIdDst": "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

The top half of the image shows an IDE (IntelliJ IDEA) interface. The code editor displays a Java method named `toListStaffMember` from the file `MemberHeaderDto.java`. The code uses Java Stream API to filter members based on their duty ID and collects the results into a list.

```

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 bottom half of the image shows a screenshot of the Postman application. It displays a collection named "bootcamp" and a specific API endpoint named "AssignmentOrder / Member / Find all staff member". The "GET" request is selected, and its URL is `((base_url))/member/staff-mem`. The response body is shown in JSON format, listing three staff members with their first and last names and duty IDs.

```

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

```

8. Penggunaan login dengan otoritas berbeda

- Membuat user

```

SQLQuery15.sql - LAPTOP-U114EHAT\1315 (72) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
AssignmentOrder
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]

```

UserID	Username	Password	Enabled	Role
A01	Budi	\$2a\$10\$Wxacr2aoJe64kYTEa25KwO/PfdGPqFgmGRM4g...	1	ADMIN
B01	David	\$2a\$10\$9xEPrn1dVluV99AzTewhQ5c5dwF77ExvxDpdOk...	1	STAFF_MEMBER
C01	Fatmawati	\$2a\$10\$oiLDIBdG17BCxLMbKuCobb6KRIEVzIDbxOMNAK75...	1	CHAIRMAN

Query executed successfully.

bootcamp

AssignmentOrder / Auth / Register user

POST {{base_url}}/auth/register?memberId=B02

Body (JSON)

```

1 ...
2 ...
3 ...
4 ...

```

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

```

1 ...
2 ...
3 ...
4 ...
5 ...

```

Nama : Kevin Lie

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar indicates the connection is to 'SQLQuery15.sql - LAPTOP-U114EHAT\MSSQLSERVER1.AssignmentOrder (LAPTOP-U114EHAT\1315 (72))'. The Object Explorer sidebar shows various database objects like Tables, System Tables, External Tables, etc. In the center, a query window displays the following T-SQL script:

```
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]
```

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

	UserID	Username	Password	Enabled	Role
1	A01	Budi	\$2a\$10\$Wxacr2aoJe64kYTEs25KwO/Pfd.GPqFgmGRM4g/...	1	ADMIN
2	B01	David	\$2a\$10\$9xePnq1dVfuV98AzTewhQ5c5vwF77ExIxRpdpOk...	1	STAFF_MEMBER
3	B02	Ricky	\$2a\$10\$gJW6quvKMV.TqFHQcA/eo22nNg/TnIoT7NhLbgK...	1	STAFF_MEMBER
4	C01	Fatimah	\$2e\$10\$loLDIBdG7BCxLMbKuCibb6KRIEVziDbxOWNAK757...	1	CHAIRMAN

At the bottom of the results pane, it says 'Query executed successfully.' The status bar at the bottom right shows the date and time: '10/06/2022 13:20'.

Nama : Kevin Lie

- Mengecek otoritas user

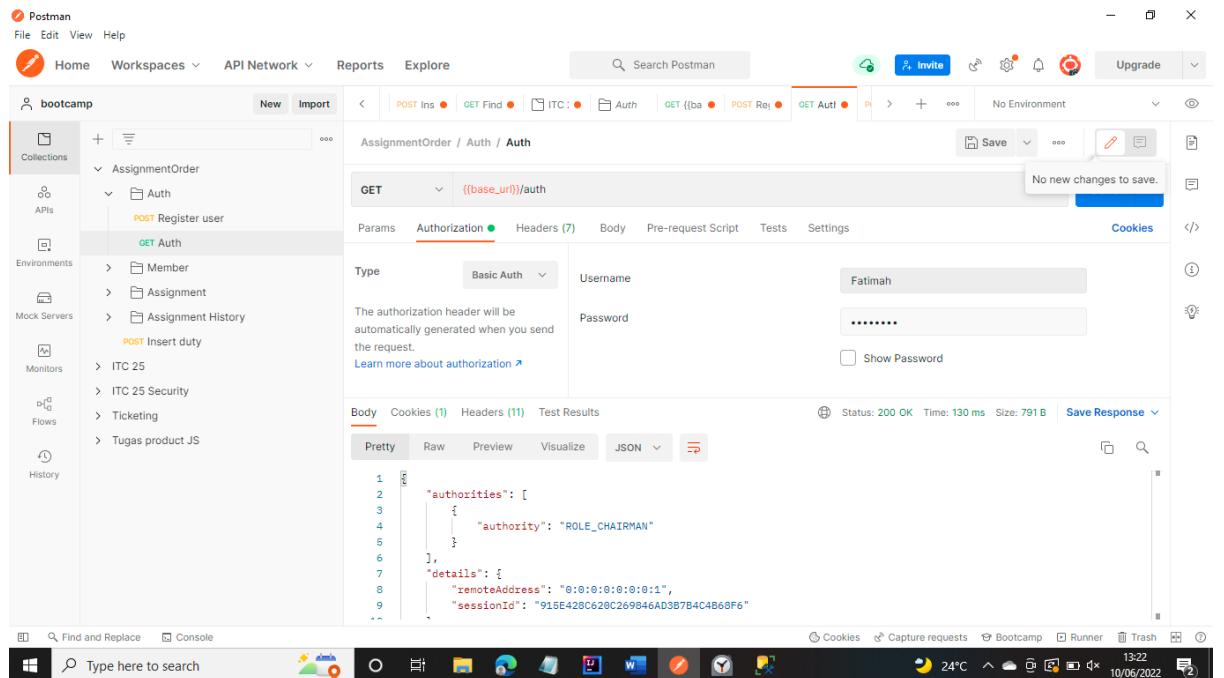
The screenshot shows the Postman interface with a collection named 'bootcamp'. Under the 'Auth' folder, there is a 'GET Auth' request. The 'Authorization' tab is selected, showing 'Basic Auth' with 'Username' set to 'Budi' and 'Password' set to '*****'. The 'Body' tab shows a JSON response with authorities and details. The status bar indicates a 200 OK response.

```
1
2   "authorities": [
3     {
4       "authority": "ROLE_ADMIN"
5     }
6   ],
7   "details": {
8     "remoteAddress": "0:0:0:0:0:0:0:1",
9     "sessionId": "915E428C620C269846AD3B7B4C4B68F6"
```

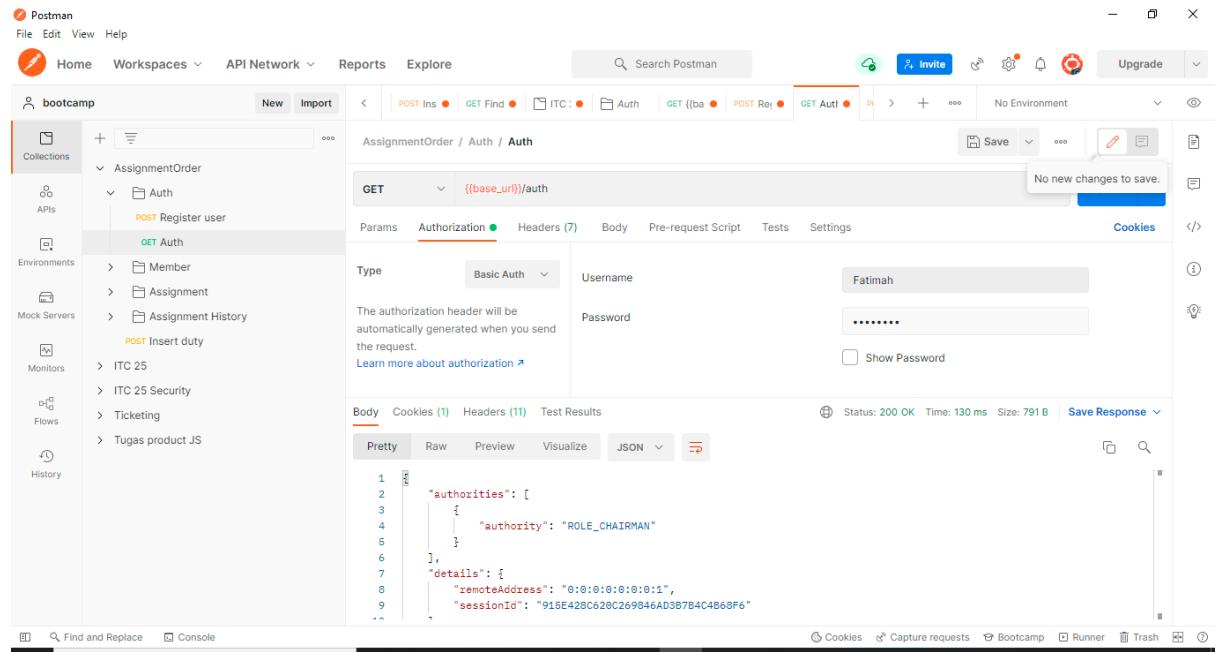
The screenshot shows the Postman interface with a collection named 'bootcamp'. Under the 'Auth' folder, there is a 'GET Auth' request. The 'Authorization' tab is selected, showing 'Basic Auth' with 'Username' set to 'David' and 'Password' set to '*****'. The 'Body' tab shows a JSON response with authorities and details. The status bar indicates a 200 OK response.

```
1
2   "authorities": [
3     {
4       "authority": "ROLE_STAFF_MEMBER"
5     }
6   ],
7   "details": {
8     "remoteAddress": "0:0:0:0:0:0:0:1",
9     "sessionId": "915E428C620C269846AD3B7B4C4B68F6"
```

Nama : Kevin Lie



- Percobaan fungsi aplikasi dengan user berbeda

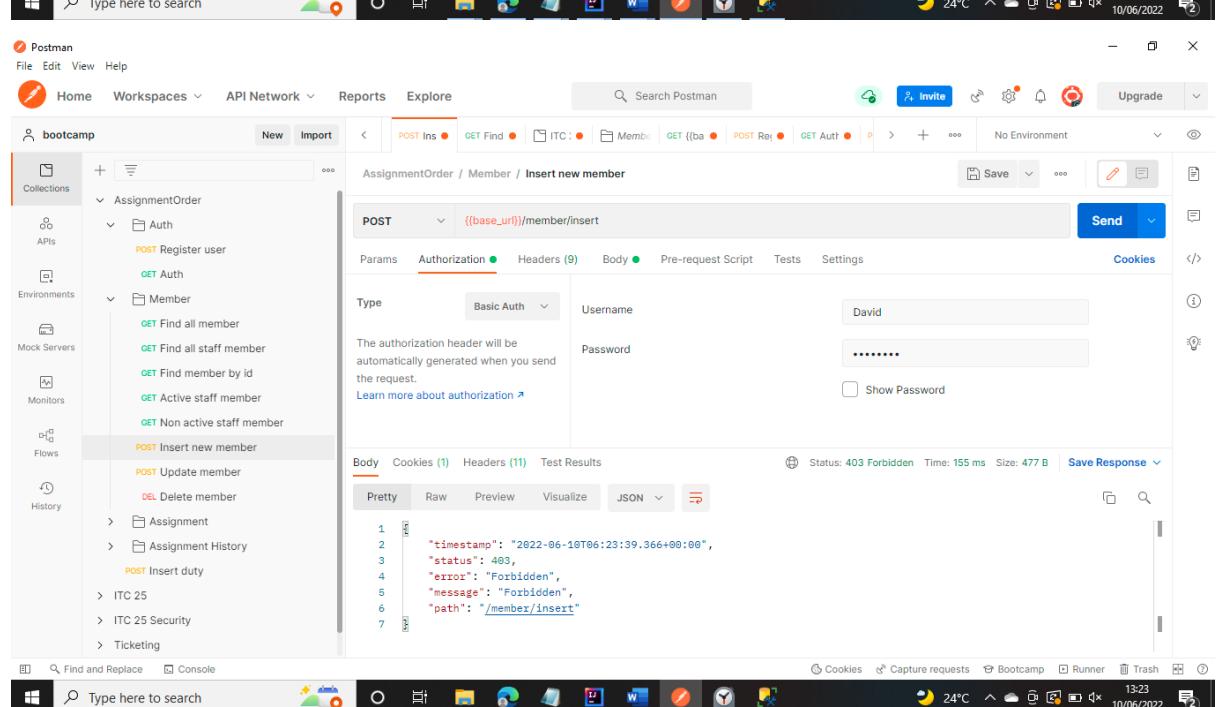


The screenshot shows the Postman interface with a collection named "bootcamp". In the "Auth" folder, there is a GET request for "/auth". The "Authorization" tab is selected, showing "Basic Auth" with "Username" set to "Fatimah" and "Password" set to "*****". The response status is 200 OK with a response body containing JSON:

```

1
2   "authorities": [
3     {
4       "authority": "ROLE_CHAIRMAN"
5     }
6   ],
7   "details": {
8     "remoteAddress": "0:0:0:0:0:0:0:1",
9     "sessionId": "915E428C628C269846AD3B7B4C4B68F6"

```



The screenshot shows the Postman interface with the same "bootcamp" collection. In the "Member" folder, there is a POST request for "/member/insert". The "Authorization" tab is selected, showing "Basic Auth" with "Username" set to "David" and "Password" set to "*****". The response status is 403 Forbidden with a response body containing JSON:

```

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

```

Nama : Kevin Lie

The screenshot shows the Postman interface. On the left, the 'bootcamp' workspace is selected, displaying various API collections like 'AssignmentOrder', 'Auth', and 'Member'. Under 'Member', a 'POST Insert new member' request is highlighted. The 'Authorization' tab is selected, showing 'Basic Auth' with 'Username' set to 'Fatimah' and 'Password' set to '*****'. The 'Body' tab shows a JSON payload. The 'Test Results' section indicates a 403 Forbidden status with the message: "The authorization header will be automatically generated when you send the request." Below the results, a code editor shows the raw SQL query used for the test.

```
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]
```

The screenshot shows Microsoft SQL Server Management Studio (SSMS). The Object Explorer on the left shows the database structure, including tables like 'AssignmentOrder', 'Auth', 'Duty', 'Member', 'User', and 'User'. In the center, a query window displays the results of a SELECT query on the 'User' table. The results show four rows of data:

UserID	Username	Password	Enabled	Role
A01	Budi	\$2a\$10\$Wxacr2eJe64kYTEa25KwO/PfdGPaLPqFgmGRM4g/...	1	ADMIN
B01	David	\$2a\$10\$8/xPrnj1dVfu/V998AzTewQ85c3vwF77.EYkxRpdOk...	1	STAFF_MEMBER
B02	Ricky	\$2a\$10\$quW6quvvKMV.TqFHQcA/eO2nuN6/TnIoT7BhLbgK...	1	STAFF_MEMBER
C01	Fatimah	\$2a\$10\$loLDIBtG17BCxLMbKuCobb6KRlEVzIDbxOVNAk757...	1	CHAIRMAN

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