

```
C:\WINDOWS\system32\cmd. X + v
MariaDB [kuliah]> insert into mahasiswa(nim,nama,gender,prodi,alamat) values
-> ('10','Irvan Arif A','L','TI','Cibadak');
Query OK, 1 row affected (0.007 sec)

MariaDB [kuliah]> show table
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1
MariaDB [kuliah]> show table;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1
MariaDB [kuliah]> show tables;
+-----+
| Tables_in_kuliah |
+-----+
| mahasiswa         |
+-----+
1 row in set (0.001 sec)

MariaDB [kuliah]> desc mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type                | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | char(10)            | NO   | PRI | NULL    |       |
| nama  | varchar(25)         | YES  |     | NULL    |       |
| gender | enum('L','P')       | YES  |     | NULL    |       |
| prodi | enum('TI','TE','SI') | YES  |     | NULL    |       |
| alamat | text                | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.004 sec)

MariaDB [kuliah]> |
```

```
C:\WINDOWS\system32\cmd. X + v
Microsoft Windows [Version 10.0.22621.2715]
(c) Microsoft Corporation. All rights reserved.

C:\Users\KOMPUTER JARKOM 36>cd\

C:\>cd xampp\mysql\bin

C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.28-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database kuliah;
ERROR 1007 (HY000): Can't create database 'kuliah'; database exists
MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> CREATE TABLE mahasiswa(
  -> nim CHAR(10) PRIMARY KEY,
  -> nama VARCHAR(25),
  -> gender ENUM('L','P'),
  -> prodi ENUM('TI','TE','SI'),
  -> alamat TEXT
  -> );
ERROR 1050 (42S01): Table 'mahasiswa' already exists
MariaDB [kuliah]> show tables;
+-----+
| Tables_in_kuliah |
+-----+
| mahasiswa        |
+-----+
1 row in set (0.001 sec)
```

85°F Partly sunny

Search

5:20 PM 12/15/2023

Visual Studio Code interface showing a project named "dbjs - backendforflutter". The Explorer sidebar on the left displays the file structure:

- 0... 4 unsaved
 - JS dbjs models
 - JS mahasiswaContr...
 - JS server.js
 - JS index.js 5
- BACKENDFORFLUTTER
 - controllers
 - JS mahasiswaControlle...
 - models
 - JS dbjs
 - JS tempCodeRunnerFil...
 - node_modules
 - JS index.js 5
 - package-lock.json
 - package.json
 - JS server.js
- OUTLINE
- TIMELINE

The main editor displays the code in `models > JS dbjs > ...`:

```
1 const e = require('express');
2 const mysql = require('mysql');
3
4 const connection = mysql.createConnection({
5   host: 'localhost',
6   user: 'root',
7   password: '',
8   database: 'kuliah'
9 });
10
11 connection.connect((err) => {
12   if (err){
13     console.log('Error connecting to MYSQL database:', err);
14   } else {
15     console.log('Connected to MYSQL database');
16   }
17 });
18
19 module.exports = connection;
```

The status bar at the bottom indicates the cursor is at Line 19, Column 29, with 4 spaces, UTF-8 encoding, CRLF line endings, and the file is JavaScript.

Windows taskbar at the bottom shows the date and time as 6:59 PM 12/15/2023, along with system icons for network, volume, and battery.

CA\WINDOWS\system32\cmd.exe X Windows PowerShell X + -

Mode	LastWriteTime	Length	Name
d-----	12/15/2023 5:29 PM		backendforflutter

```
PS C:\> cd backendforflutter
PS C:\backendforflutter> npm init -y
Wrote to C:\backendforflutter\package.json:

{
  "name": "backendforflutter",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

PS C:\backendforflutter> npm install mysql express

added 74 packages, and audited 75 packages in 6s

11 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\backendforflutter> code .
PS C:\backendforflutter>
```

83°F
Partly sunny

5:31 PM
12/15/2023

File Edit Selection View Go Run Terminal Help

• mahasiswaController.js - backendforflutter - Visual Studio Code

EXPLORER

OPEN EDITORS 4 unsaved

JS db.js models

JS mahasiswaContr...

JS server.js

JS index.js 5

BACKENDFORFLUTTER

controllers

JS mahasiswaControll...

models

JS db.js

JS tempCodeRunnerFil...

node_modules

JS index.js 5

package-lock.json

package.json

server.js

OUTLINE

TIMELINE

controllers > JS mahasiswaController.js > router.get('/') callback

```
1 const express = require('express');
2 const router = express.Router();
3 const db = require('../models/db');
4
5 //GET /mahasiswa
6 router.get('/', (req, res) => {
7   db.query('SELECT * FROM mahasiswa', (error, results) => {
8     if (error) {
9       console.error('Error fetching mahasiswa:', error);
10      res.status(500).json({ message: 'Internal Server Error' });
11    } else {
12      res.json(results);
13    }
14  });
15 });
16
17 //GET /mahasiswa/:nim
18 router.get('/:nim', (req, res) => {
19   const mahasiswaId = req.params.nim;
20   db.query('SELECT * FROM mahasiswa WHERE nim = ?', [mahasiswaId], (error, results) => {
21     if (error) {
22       console.error('Error fetching mahasiswa:', error);
23       res.status(500).json({ message: 'Internal Server Error' });
24     } else if (results.length === 0) {
25       res.status(404).json({ message: 'Mahasiswa not found' });
26     } else {
27       res.json(results[0]);
28     }
29   });
30 });
31
32 //PUT /mahasiswa/:nim
```

Ln 7, Col 32 Spaces: 4 UTF-8 CRLF JavaScript

79°F Mostly cloudy

Search

6:59 PM 12/15/2023

Visual Studio Code interface showing a JavaScript file named `index.js` in the `JS` folder. The file contains a REST client snippet for updating a student record.

EXPLORER

- JS db.js
- JS mahasiswaController.js
- JS server.js
- JS index.js 5

BACKENDFORFLUTTER

- controllers
- mahasiswaController.js
- models
- db.js
- tempCodeRunnerFile.js
- node_modules
- index.js 5
- package-lock.json
- package.json
- server.js

OUTLINE

- TIMELINE

JS index.js

```
1 const mahasiswaNim = '2021084006';
2 const updateData = {
3   nama: 'John Doe',
4   gender: 'L',
5   prodi: 'TI',
6   alamat: 'Jl. Jendral Sudirman No. 1'
7 };
8
9 fetch(http://localhost:3000/mahasiswa/${mahasiswaNim}, {  ',' expected.
10   method: 'PUT',  ',' expected.
11   headers: {  ',' expected.
12     'Content-Type': 'application/json'
13   },
14   body: JSON.stringify(updateData)  ',' expected.
15 })  ',' expected.
16   .then(response => response.json())
17   .then(data => console.log(data))
18   .catch(error => console.error('Error:', error));
```

Ln 18, Col 53 Spaces: 4 UTF-8 CRLF () JavaScript

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```
PS C:\> mkdir backendforflutter
```

Directory: C:\

Mode	LastWriteTime	Length	Name
d-----	12/15/2023 5:29 PM		backendforflutter

```
PS C:\> cd backendforflutter
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{
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  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
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```

```
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server.js - backendforflutter - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

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- JS db.js
- JS mahasiswaController.js
- JS server.js
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BACKENDFORFLUTTER

- controllers
 - JS mahasiswaController.js
- models
 - JS db.js
 - JS tempCodeRunnerFile.js
- node_modules
- JS index.js 5
- package-lock.json
- package.json
- JS server.js

server.js > ...

```
1 const express = require('express');
2 const bodyParser = require('body-parser');
3 const mahasiswaController = require('./controllers/mahasiswaController');
4
5 const app = express();
6 const PORT = 3000;
7
8 app.use(bodyParser.json());
9 app.use('/mahasiswa', mahasiswaController);
10 app.listen(PORT, () => {
11   console.log('server is running on http://localhost:${PORT}');
12 });
```

Ln 12, Col 4 Spaces: 4 UTF-8 CRLF JavaScript

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Search

6:59 PM 12/15/2023


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| prodi | enum('TI','TE','SI') | YES  |     | NULL    |       |
| alamat| text                 | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.005 sec)

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