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## Task 2: Count Staff using MySQL

# Step 1: Set up the MySQL database:

- Create a MySQL database named CountStaff.
- Create tables for departments and staffs.

## Enter the following SQL code:

```
CREATE TABLE departments (
id INT AUTO_INCREMENT PRIMARY KEY,
code VARCHAR(255) NOT NULL
);

CREATE TABLE staffs (
id INT AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(255) NOT NULL,
dept VARCHAR(255) NOT NULL,
FOREIGN KEY (dept) REFERENCES departments(code)
);
```

## Step 2: Install required packages:

Enter the following command in the terminal of visual studio code:

npm install mysql2

## Step 3: Connect to the MySQL database in db.js:

## Enter the following JavaScript code:

```
const mysql = require('mysql2');

// Define the MySQL connection
const connection = mysql.createConnection({
  host: 'localhost',
  user: 'root',
  password: 'password',
  database: 'CountStaff'
```

```
});

// Connect to MySQL

connection.connect(error => {
    if (error) throw error;
    console.log('Connected to the MySQL database');
});

module.exports = connection;
```

Step 4: Set up the route to count staff by department in routes/departments.js

# Enter the following JavaScript code:

# Step 5: Test the API

- Start the Express.js server.
- Use Postman or a web browser to test the endpoints.