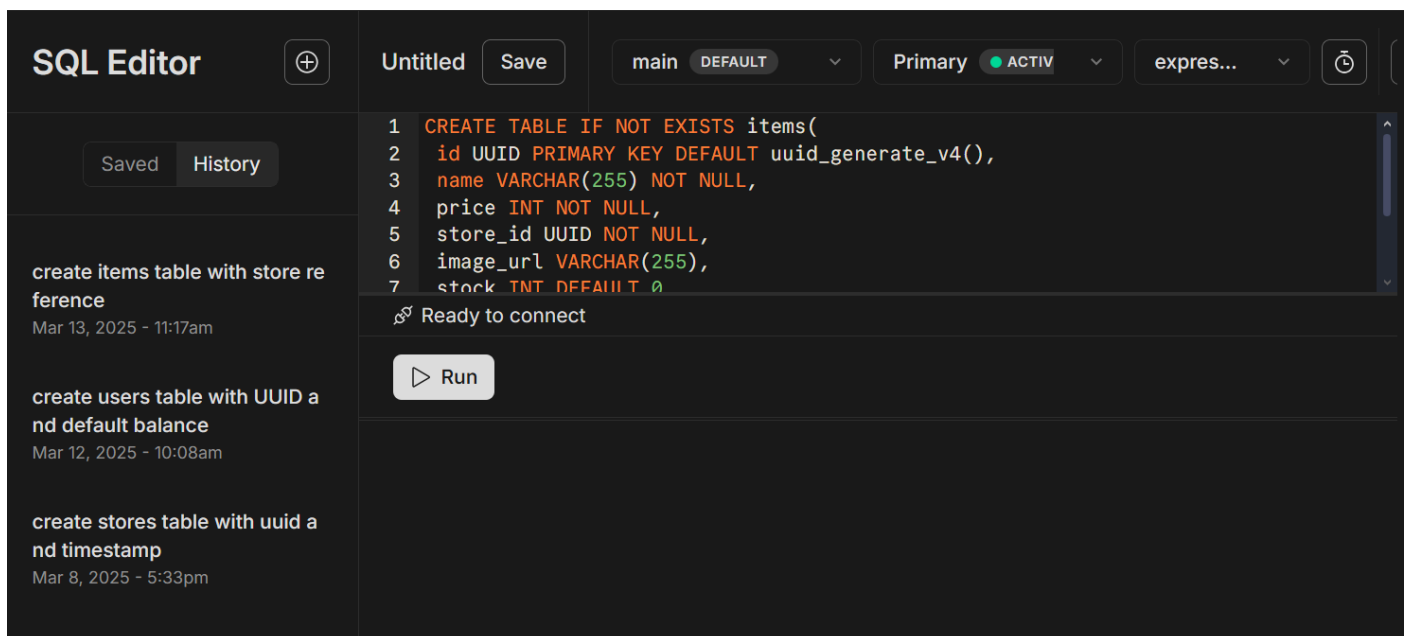


PRAKTIKUM SISTEM BASIS DATA

Nama	Deandro Najwan Ahmad Syahbanna	No. Modul	5
NPM	2306213174	Tipe	TUTAM

1. Jalankan Query di SQL Editor



The screenshot shows a SQL Editor interface with a dark theme. On the left, there is a sidebar with a 'History' tab and three saved queries: 'create items table with store reference' (Mar 13, 2025 - 11:17am), 'create users table with UUID and default balance' (Mar 12, 2025 - 10:08am), and 'create stores table with uuid and timestamp' (Mar 8, 2025 - 5:33pm). The main editor area shows a query to create an 'items' table with columns: 'id' (UUID PRIMARY KEY), 'name' (VARCHAR(255) NOT NULL), 'price' (INT NOT NULL), 'store_id' (UUID NOT NULL), 'image_url' (VARCHAR(255)), and 'stock' (TINYINT DEFAULT 0). Below the query, there is a 'Run' button and a status bar indicating 'Ready to connect'.

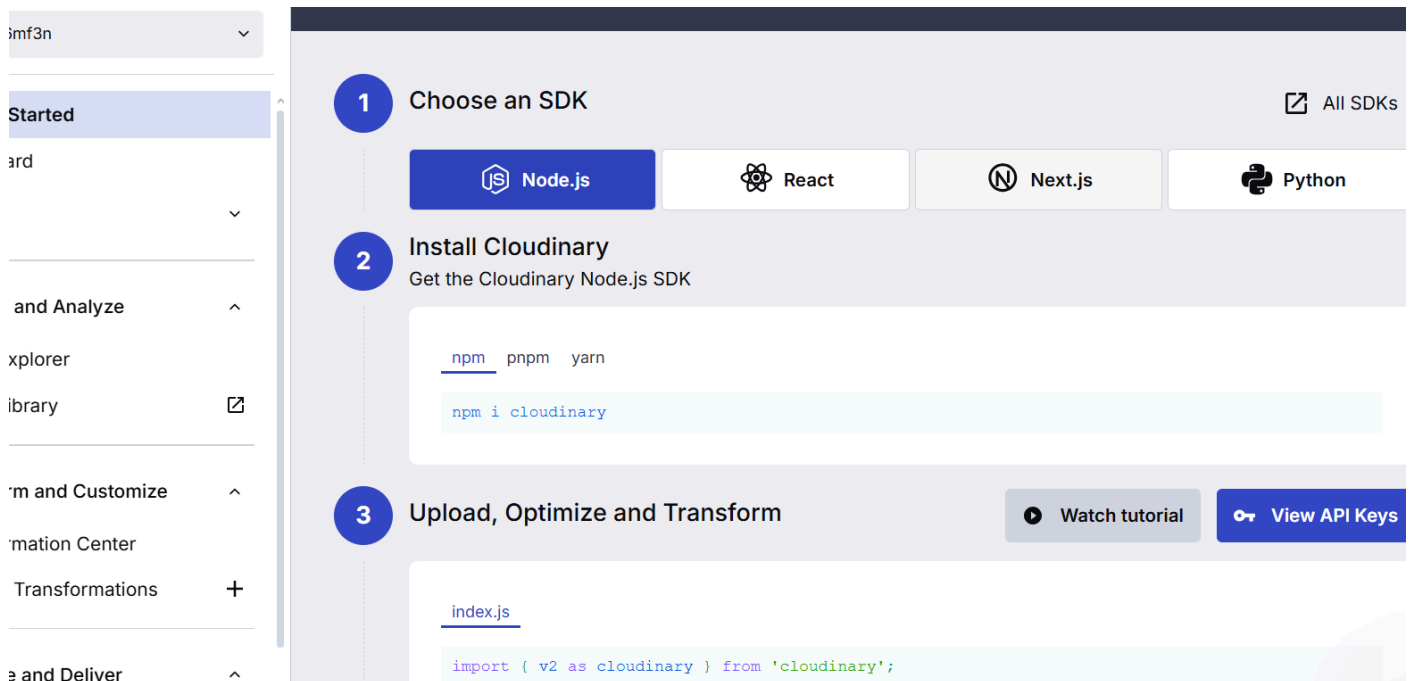
2. buat form data pada item.route.js

```

> routes > JS item.route.js > ...
1  const express = require('express');
2  const multer = require('multer');
3
4  const itemController = require('../controllers/item.controller');
5  const router = express.Router();
6  const storage = multer.memoryStorage();
7  const upload = multer({ storage: storage });
8
9  router.post('/create', upload.single('image'), itemController.createItem);
10 router.put('/', upload.single('image'), itemController.updateItem);
11
12
13 module.exports = router;
14

```

3. Sign UP cloudinary dan Install Cloudinary



The image shows the Cloudinary SDK installation guide. It is divided into three main steps:

- 1 Choose an SDK**: This step offers four options: Node.js (selected), React, Next.js, and Python. A link to "All SDKs" is also available.
- 2 Install Cloudinary**: This step instructs the user to "Get the Cloudinary Node.js SDK". It provides a code block with the command:


```
npm i cloudinary
```
- 3 Upload, Optimize and Transform**: This step provides a link to "index.js" and a code block showing the import statement:


```
import { v2 as cloudinary } from 'cloudinary';
```

 Additionally, there are buttons for "Watch tutorial" and "View API Keys".

4. Nambahin Cloudinary ke .env

```
Open in Postman | Sync to Postman | You, 2 minutes ago | 1 autho
DATABASE_URL=postgresql://express_deandro_own
PORT=4000 You, 2 minutes ago • TutamMod
```

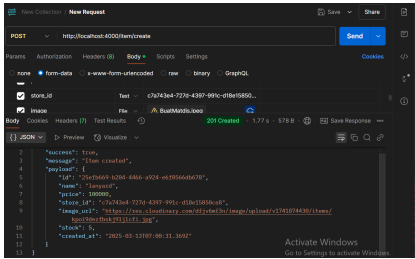
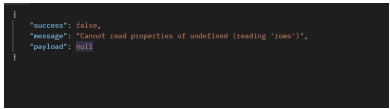
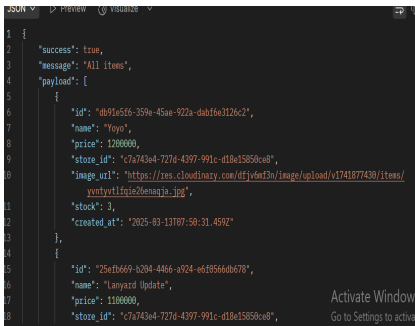
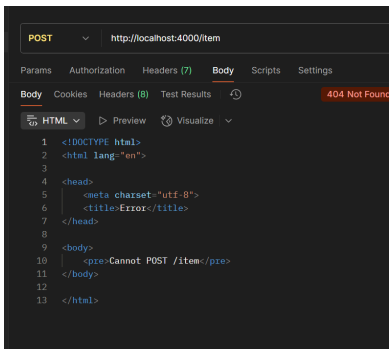
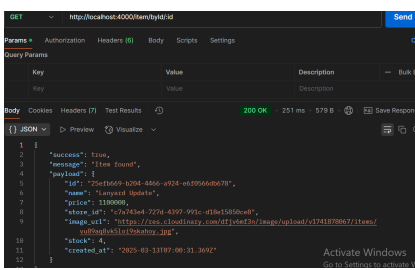
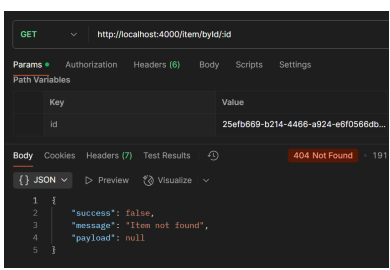
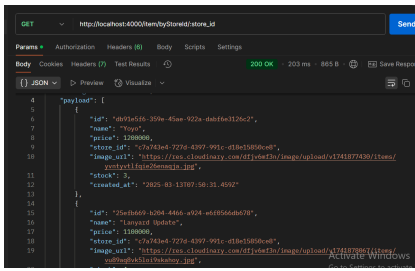
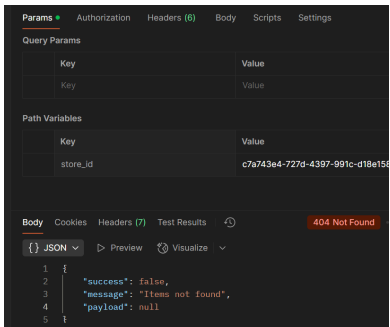
```
CLOUDINARY_CLOUD_NAME=dfjv6mf3n
CLOUDINARY_API_KEY=829175862462816
CLOUDINARY_API_SECRET=XepEeX3wnK10KtUVsd5Fuypp
```

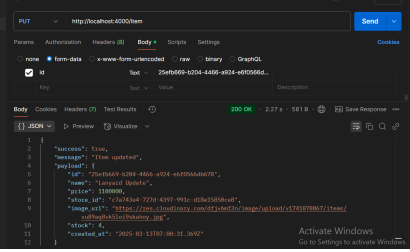
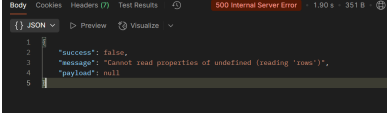
5. Hubungin Cloudinary Ke Node Modules

```
src > utils > JS cloudinary.js > [?] uploadFile > <function>
1  require("dotenv").config();
2  const cloudinary = require("cloudinary").v2;
3
4  cloudinary.config({
5    cloud_name: process.env.CLOUDINARY_CLOUD_NAME,
6    api_key: process.env.CLOUDINARY_API_KEY,
7    api_secret: process.env.CLOUDINARY_API_SECRET,
8  });
9
10 const uploadFile = (file, folder) => {
11   return new Promise((resolve, reject) => {
12     if (!file) return resolve(null); // No file to upload
13
14     const b64 = Buffer.from(file.buffer).toString("base64");
15     const dataURI = `data:${file.mimetype};base64,${b64}`;
16
17     cloudinary.uploader.upload(dataURI, {
18       folder: folder,
19     }, (error, result) => {
20       if (error) reject(error);
21       else resolve(result.secure_url);
22     });
23   });
24 };
25
26 module.exports = {
27   uploadFile,
28   ...cloudinary
29 };
```

install beberapa library yang dibutuhkan seperti cloudinary dsb.

6. Untuk kode perubahannya mungkin bisa dilihat lebih jelas dalam kode yang dikirim, tapi secara umum setelah saya menambahkan cloudinary dan menghubungkannya ke dalam kode express, saya membuat file khusus untuk mengatur tabel items, sama halnya dengan tabel stores dan users.
7. Response Format

method	endpoint	success	false
POST	/item/create		
GET	/item		
GET	/item/byId/:id		
GET	/item/byStoreId/:store_id		

PUT	/item		
DELETE	/item/:id	