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Teknik Informatika

UAS Bahasa Pemrograman

No.5

Untuk file pertama saya membuat program yang terhubung dengan database dan membuat table pada database terlebih dahulu

```
VSCode > BP > No.5 > Connect to database dan create table.py > ...
1  import mysql.connector
2
3  # ngekoneksi ke databasenya
4  cnx = mysql.connector.connect(
5      host="localhost",
6      user="root",
7      password="",
8      database="uas_bp"
9  )
10
11  cursor = cnx.cursor()
12  # Membuat tabelnya
13  create_table = """
14  CREATE TABLE users (
15      id INT AUTO_INCREMENT PRIMARY KEY,
16      name VARCHAR(255),
17      email VARCHAR(255)
18  )
19  """
20  cursor.execute(create_table)
21
22  # Menambahkan data
23  add_user = "INSERT INTO users (name, email) VALUES (%s, %s)"
24  user_data = ("Pozyomka", "pozye@example.com")
25  cursor.execute(add_user, user_data)
26  cnx.commit()
27
28  # Mengambil data
29  query = "SELECT * FROM users"
30  cursor.execute(query)
31
32  for (id, name, email) in cursor:
33      print("ID: {} Name: {} Email: {}".format(id, name, email))
34
35  # Menutup koneksi
36  cursor.close()
37  cnx.close()
```

```
PS C:\Users\bagus\OneDrive\Desktop\VScode> & C:/Users/bagus/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/bagus/OneDrive/Desktop/VScode/BP/No.5/Connect to database dan create table.py"
ID: 1, Name: Pozyomka, Email: pozye@example.com
PS C:\Users\bagus\OneDrive\Desktop\VScode>
```

	id	name	email
<input type="checkbox"/>	1	Pozyomka	pozye@example.com

Untuk file kedua saya membuat program aplikasi yang dapat menginput id, nama, dan email dengan mengisi tabel yang muncul setelah di run.

```
Gui.py U | Connect to database.py U | Connect to database dan create table.py U | Aplikasi.py U x
VSCode > BP > No.5 > Aplikasi.py > ...
1 import mysql.connector
2 import tkinter as tk
3
4 # ngekoneksi ke database
5 conn = mysql.connector.connect(
6     host="localhost",
7     user="root",
8     password="",
9     database="uas_bp"
10 )
11
12 # ngebuat cursor
13 cursor = conn.cursor()
14
15 # Function untuk insert data ke database
16 def insert_data():
17     id = entry_id.get()
18     nama = entry_name.get()
19     email = entry_email.get()
20     cursor.execute("INSERT INTO users (id, nama, email) VALUES (%s, %s, %s)", (id, nama, email))
21     conn.commit()
22     label.config(text="Data inserted successfully!")
23
24 # Function untuk fetch data ke database
25 def fetch_data():
26     cursor.execute("SELECT * FROM users")
27     results = cursor.fetchall()
28     return results
29
30 # GUI
31 root = tk.Tk()
32 root.title("Database App")
33
```

```
Gui.py U | Connect to database.py U | Connect to database dan create table.py U | Aplikasi.py U x
VSCode > BP > No.5 > Aplikasi.py > ...
31 root = tk.Tk()
32 root.title("Database App")
33
34 label = tk.Label(root, text="Enter user information:")
35 label.grid(row=0, column=0, columnspan=2)
36
37 id_label = tk.Label(root, text="ID:")
38 id_label.grid(row=1, column=0)
39 entry_id = tk.Entry(root)
40 entry_id.grid(row=1, column=1)
41
42 name_label = tk.Label(root, text="Nama:")
43 name_label.grid(row=2, column=0)
44 entry_name = tk.Entry(root)
45 entry_name.grid(row=2, column=1)
46
47 email_label = tk.Label(root, text="Email:")
48 email_label.grid(row=3, column=0)
49 entry_email = tk.Entry(root)
50 entry_email.grid(row=3, column=1)
51
52 insert_button = tk.Button(root, text="Enter", command=insert_data)
53 insert_button.grid(row=4, column=0, columnspan=2)
54
55 root.mainloop()
56
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER Python +
PS C:\Users\bagus\OneDrive\Desktop\VScode> & C:/Users/bagus/AppData/Local/Programs/Python/Python310/python.exe
s/OneDrive/Desktop/VScode/BP/No.5/Connect to database dan create table.py"
ID: 1, Name: Pozyomka, Email: pozye@example.com
PS C:\Users\bagus\OneDrive\Desktop\VScode> & C:/Users
/OneDrive/Desktop/VScode/BP/No.5/Aplikasi.py
[]
```

Enter user information:

ID:

Nama:

Email:

Enter

Data inserted successfully!

ID:

Name:

Email:

Enter

				id	name	email
<input type="checkbox"/>		Ubah		Salin		Hapus
	1	Pozyomka	pozye@example.com			
<input type="checkbox"/>		Ubah		Salin		Hapus
	2	Suki	Suki@example.com			