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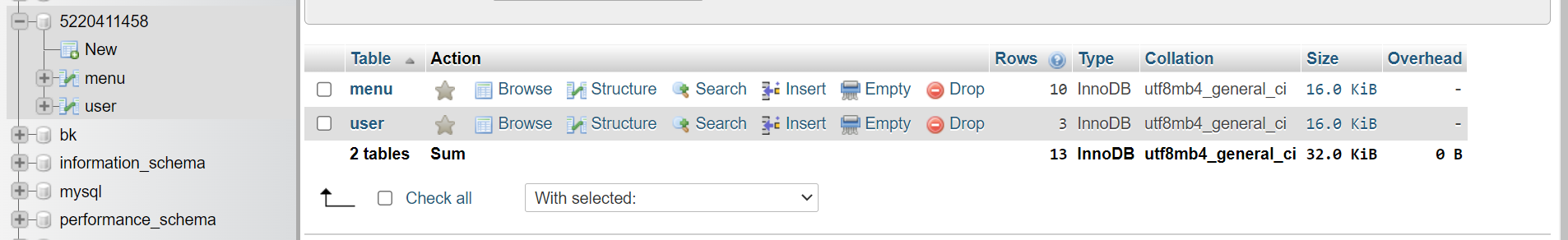
Kelas : Pemrograman Berbasis Objek Praktik – VI

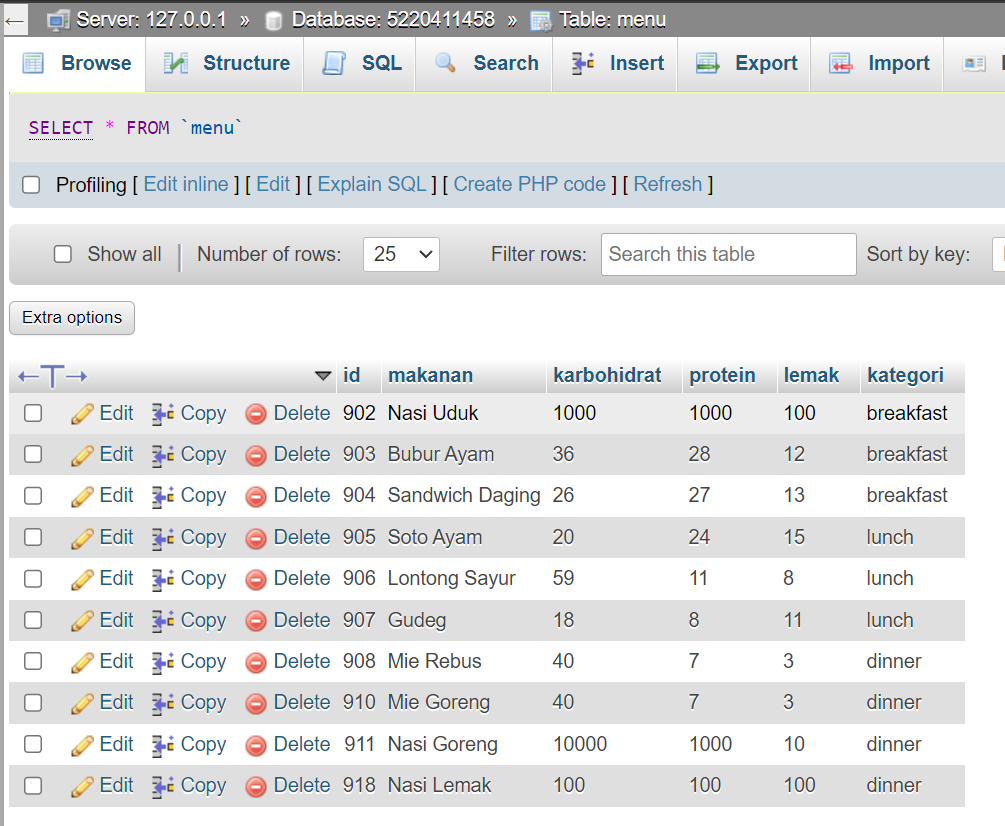
Link GitHub : https://github.com/McMottie/PBOP-Project-Database

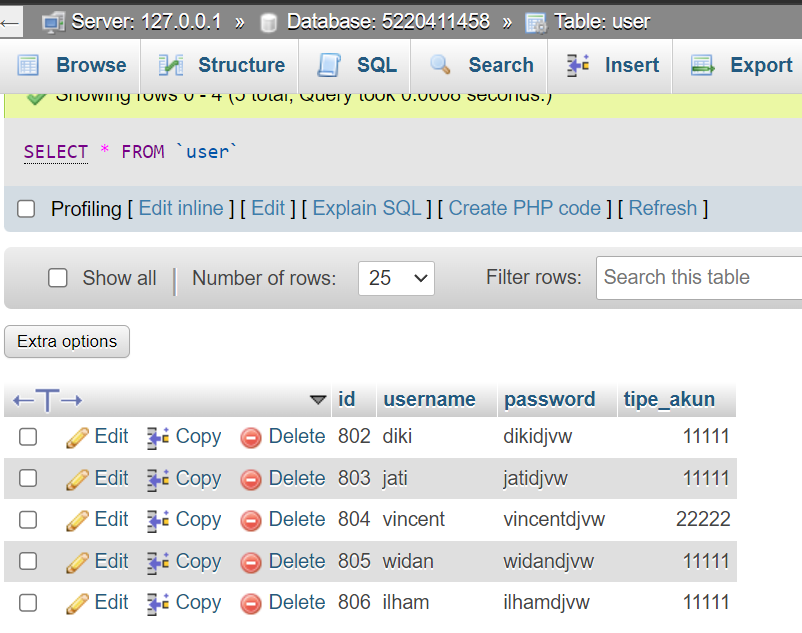
1. Penjelasan

Saya membuat program tentang “Rencana Makan Harian” pada program ini mengaplikasikan user untuk memilih apa saja makanan yang akan dimakan hari itu (Breakfast, Lunch, dan Dinner). Kemudian setelah memilih makanan yang dipilih akan muncul beberapa informasi nutrisi dalam makanan tersebut, antara lain Karbohidrat, Protein, dan Lemak. Terdapat 2 role untuk login dalam program ini yaitu role User dan Admin. Pada halaman Admin terdapat 2 opsi, yang pertama untuk menambahkan menu makanan dan mengubah informasi nutrisi makanan. Kemudian yang kedua untuk menghapus id user.

1. Database







1. Kode Program (Modular)

\*\*menu.py

import os

from user import User

from admin import Admin

dataUser = User()

dataAdmin = Admin()

*def* menu():

  while True:

    running = True

    print("Selamat Datang di Rencana Makanan")

    data = dataUser.login()

    if data[3] == 11111:

      while running:

        if len(dataUser.listMenu) != 0:

          dataUser.lihatMenu()

          os.system('pause')

          break

        else:

          print("=================================")

          print("Anda ingin makan apa hari ini?")

          dataUser.pilihMenu()

    elif data[3] == 22222:

      while running:

        print('Menu Admin : ')

        print('1. Daftar Makanan')

        print('2. Daftar User')

        print('0. Logout')

        pilih = int(input('Masukkan pilihan anda : '))

        if pilih == 1:

          dataAdmin.menu()

        elif pilih == 2:

          dataAdmin.hapusUser()

        elif pilih == 0:

          running = False

menu()

\*\*user,py

from query import Query

database = Query()

database.connection('localhost', 'root', '', '5220411458')

*class* User:

*def* \_\_init\_\_(*self*):

*self*.id = None

*self*.username = None

*self*.\_\_password = None

*self*.listMenu = []

*def* login(*self*):

      username = str(input("Username : "))

      password = str(input("Password : "))

      data = database.login(username, password)

      return data

*def* pilihMenu(*self*):

      menuBreakfast = database.menuBreakfast()

      print("=================================")

      print("=========== BREAKFAST ===========")

      for i in menuBreakfast:

        print(*f*'{i[1]} [{i[0]}]')

      breakfast = int(input("Masukkan ID Menu Breakfast : "))

      data = database.pilihMenu(breakfast)

*self*.listMenu.append(data)

      menuLunch = database.menuLunch()

      print("=================================")

      print("============= LUNCH =============")

      for i in menuLunch:

        print(*f*'{i[1]} [{i[0]}]')

        # print(f'{i[2]}, {i[3]}, {i[4]}')

      lunch = int(input("Masukkan ID Menu Lunch : "))

      data = database.pilihMenu(lunch)

*self*.listMenu.append(data)

      menuDinner = database.menuDinner()

      print("=================================")

      print("============ DINNER =============")

      for i in menuDinner:

        print(*f*'{i[1]} [{i[0]}]')

      dinner = int(input("Masukkan ID Menu Dinner : "))

      data = database.pilihMenu(dinner)

*self*.listMenu.append(data)

*def* lihatMenu(*self*):

      print('\n  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

      print('| DAFTAR MENU YANG ANDA PILIH     ')

      print(*f*'| Breakfast (Sarapan) : {*self*.listMenu[0][1]}          ')

      print(*f*'| Karbohidrat : {*self*.listMenu[0][2]}                  ')

      print(*f*'| Protein : {*self*.listMenu[0][3]}                      ')

      print(*f*'| Lemak : {*self*.listMenu[0][4]}                        ')

      print(*f*' \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

      print(*f*'| Lunch (Makan Siang) : {*self*.listMenu[1][1]}          ')

      print(*f*'| Karbohidrat : {*self*.listMenu[1][2]}                  ')

      print(*f*'| Protein : {*self*.listMenu[1][3]}                      ')

      print(*f*'| Lemak : {*self*.listMenu[1][4]}                        ')

      print(*f*' \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

      print(*f*'| Dinner (Makan Malam) : {*self*.listMenu[2][1]}         ')

      print(*f*'| Karbohidrat : {*self*.listMenu[2][2]}                  ')

      print(*f*'| Protein : {*self*.listMenu[2][3]}                      ')

      print(*f*'| Lemak : {*self*.listMenu[2][4]}                        ')

      print(*f*' \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

\*\*admin.py

from user import User, database

*class* Admin(User):

*def* \_\_init\_\_(*self*):

    super().\_\_init\_\_()

*def* inputMenu(*self*):

    idMenu = int(input('Id Menu : '))

    namaMenu = str(input("Nama Menu : "))

    karbo  = int(input('Jumlah Karbohidrat : '))

    protein  = int(input('Jumlah Protein : '))

    lemak  = int(input('Jumlah Lemak : '))

    kategori = str(input('Kategori Menu : '))

    return [idMenu, namaMenu, karbo, protein, lemak, kategori]

*def* ubahMenu(*self*):

    karbo  = int(input('Jumlah Karbohidrat : '))

    protein  = int(input('Jumlah Protein : '))

    lemak  = int(input('Jumlah Lemak : '))

    return [karbo, protein, lemak]

*def* menu(*self*):

    data = database.menu()

    print('=====================================')

    for menu in data:

      print(*f*'{menu[1]} [{menu[0]}]')

    print('=====================================')

    print('1. Tambah Menu')

    print('2. Ubah Menu')

    pilihan = int(input('Masukkan pilihan anda : '))

    if pilihan == 1:

      database.tambahMenu(*self*.inputMenu())

    if pilihan == 2:

      id = int(input('Masukkan Id menu yang ingin diubah : '))

      database.ubahMenu(id, *self*.ubahMenu())

*def* hapusUser(*self*):

    user = database.dataUser()

    print('=====================================')

    for i in user:

      print(*f*'{i[1]} [{i[0]}]')

    print('=====================================')

    id = int(input('Masukkan Id yang ingin dihapus : '))

    database.hapusUser(id)

\*\*query.py

import mysql.connector

*class* Query():

*def* \_\_init\_\_(*self*):

*self*.host = None

*self*.user = None

*self*.password = None

*self*.database = None

*self*.connect = None

*self*.cursor = None

*def* connection(*self*, *host*, *user*, *password*, *database*):

*self*.host = *host*

*self*.user = *user*

*self*.password = *password*

*self*.database = *database*

*self*.connect = mysql.connector.connect(*host* = *host*, *user* = *user*, *passwd* = *password*, *database* = *database*)

*self*.cursor = *self*.connect.cursor()

      return True

*def* login(*self*, *username*, *password*):

*self*.cursor.execute(*f*'SELECT \* FROM user WHERE username="{*username*}" and password="{*password*}"')

      return *self*.cursor.fetchone()

*def* menu(*self*):

*self*.cursor.execute(*f*"SELECT \* FROM menu")

      return *self*.cursor.fetchall()

*def* menuBreakfast(*self*):

*self*.cursor.execute(*f*"SELECT \* FROM menu WHERE kategori = 'breakfast' ")

      return *self*.cursor.fetchall()

*def* menuLunch(*self*):

*self*.cursor.execute(*f*"SELECT \* FROM menu WHERE kategori = 'lunch' ")

      return *self*.cursor.fetchall()

*def* menuDinner(*self*):

*self*.cursor.execute(*f*"SELECT \* FROM menu WHERE kategori = 'dinner' ")

      return *self*.cursor.fetchall()

*def* pilihMenu(*self*, *id*):

*self*.cursor.execute (*f*'SELECT \* FROM menu WHERE id = "{*id*}" ' )

      return *self*.cursor.fetchone()

*def* tambahMenu(*self*, *data*):

*self*.cursor.execute(*f*"INSERT INTO menu (id, makanan, karbohidrat, protein, lemak, kategori) VALUES ('{*data*[0]}', '{*data*[1]}', '{*data*[2]}', '{*data*[3]}', '{*data*[4]}', '{*data*[5]}')")

*self*.connect.commit()

*def* ubahMenu(*self*, *id*, *data*):

*self*.cursor.execute(*f*"UPDATE menu SET karbohidrat='{*data*[0]}', protein='{*data*[1]}', lemak='{*data*[2]}' WHERE id='{*id*}'")

*self*.connect.commit()

*def* dataUser(*self*):

*self*.cursor.execute(*f*'SELECT \* FROM user')

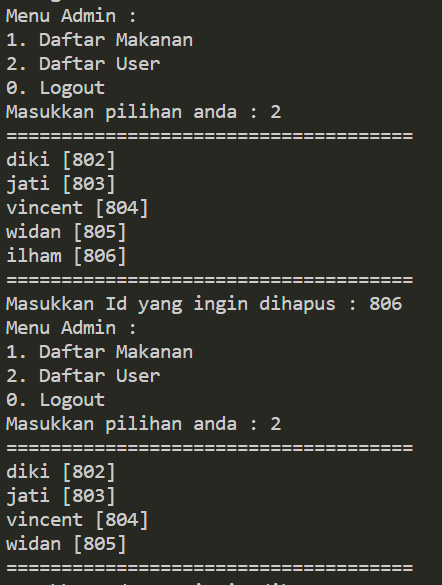
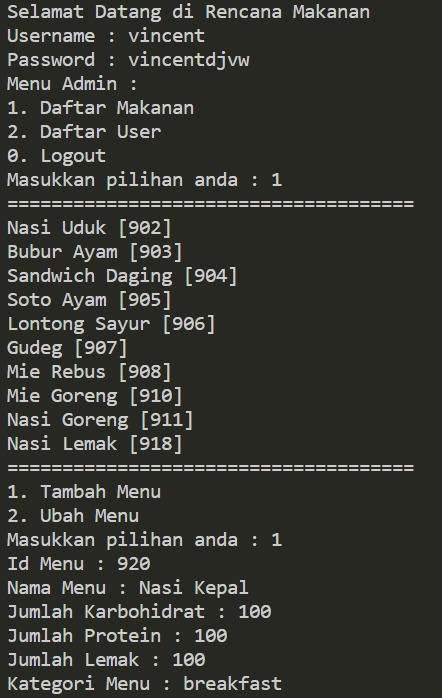
      return *self*.cursor.fetchall()

*def* hapusUser(*self*, *id*):

*self*.cursor.execute(*f*'DELETE FROM user WHERE id="{*id*}"')

*self*.connect.commit()

1. Hasil Program

\*\*[ADMIN]

\*\*[USER]

