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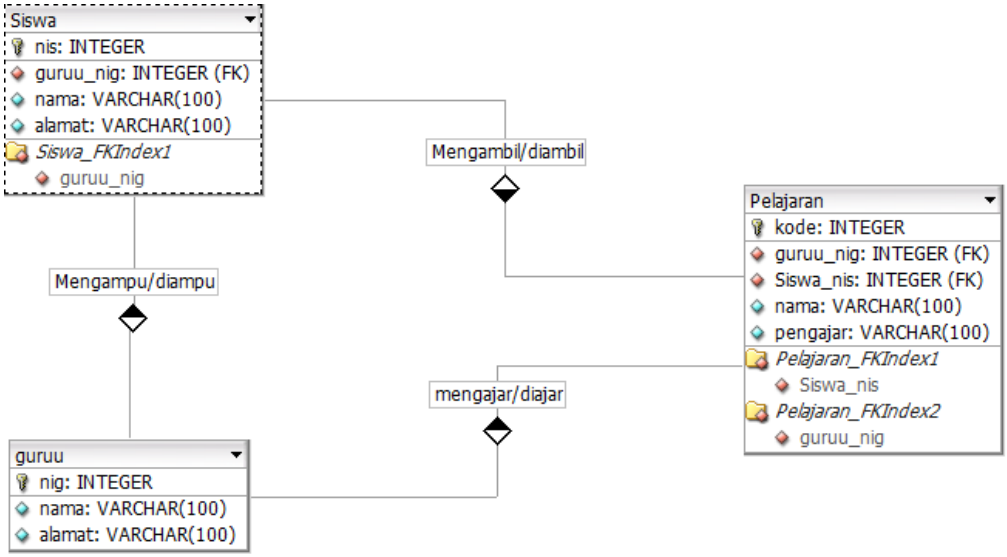
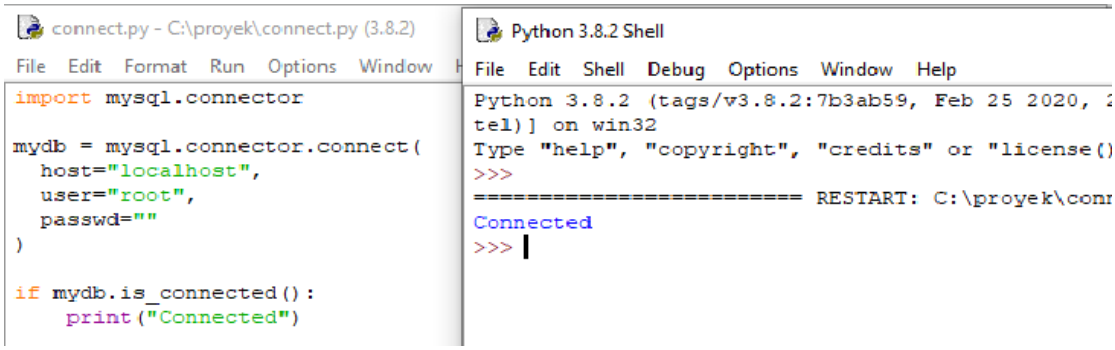
Kelas : H

Praktikum Modul 12

Membuat Sistem dengan Database



Mengkonekan database dengan mysql



Membuat database sekolah

create_con.py - C:\proyek\create_con.py (3.8.2)

File Edit Format Run Options Window Help

```
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  passwd=""
)

cursor = mydb.cursor()
cursor.execute("CREATE DATABASE sekolah")

print("Database sekolah sukses dibuat")
```

Membuat table siswa, guruu, dan pelajaran

- Siswa

table_siswa.py - C:\proyek\table_siswa.py (3.8.2)

File Edit Format Run Options Window Help

```
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  passwd="",
  database="sekolah"
)

cursor = mydb.cursor()

query = """
CREATE TABLE siswa
(
    nis INT(10),
    nama VARCHAR(100),
    alamat VARCHAR(100)
)
"""

cursor.execute(query)

print("Table siswa sukses dibuat")
```

- Guru

table_guru.py - C:\proyek\table_guru.py (3.8.2)

File Edit Format Run Options Window Help

```
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  passwd="",
  database="sekolah"
)

cursor = mydb.cursor()

query = """
CREATE TABLE guruu
(
    nig INT(10),
    nama VARCHAR(100),
    alamat VARCHAR(100)
)
"""

cursor.execute(query)
```

- Pelajaran

table_pelajaran.py - C:/proyek/table_pelajaran.py (3.8.2)

File Edit Format Run Options Window Help

```
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  passwd="",
  database="sekolah"
)

cursor = mydb.cursor()

query = """
CREATE TABLE pelajaran
(
    kode INT(10),
    nama VARCHAR(100),
    pengajar VARCHAR(100)
)
"""

cursor.execute(query)

print("Table pelajaran sukses dibuat")
```

Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MS
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more i
>>>
========== RESTART: C:/proyek/table_pelajaran.py =
Table pelajaran sukses dibuat
>>>
```

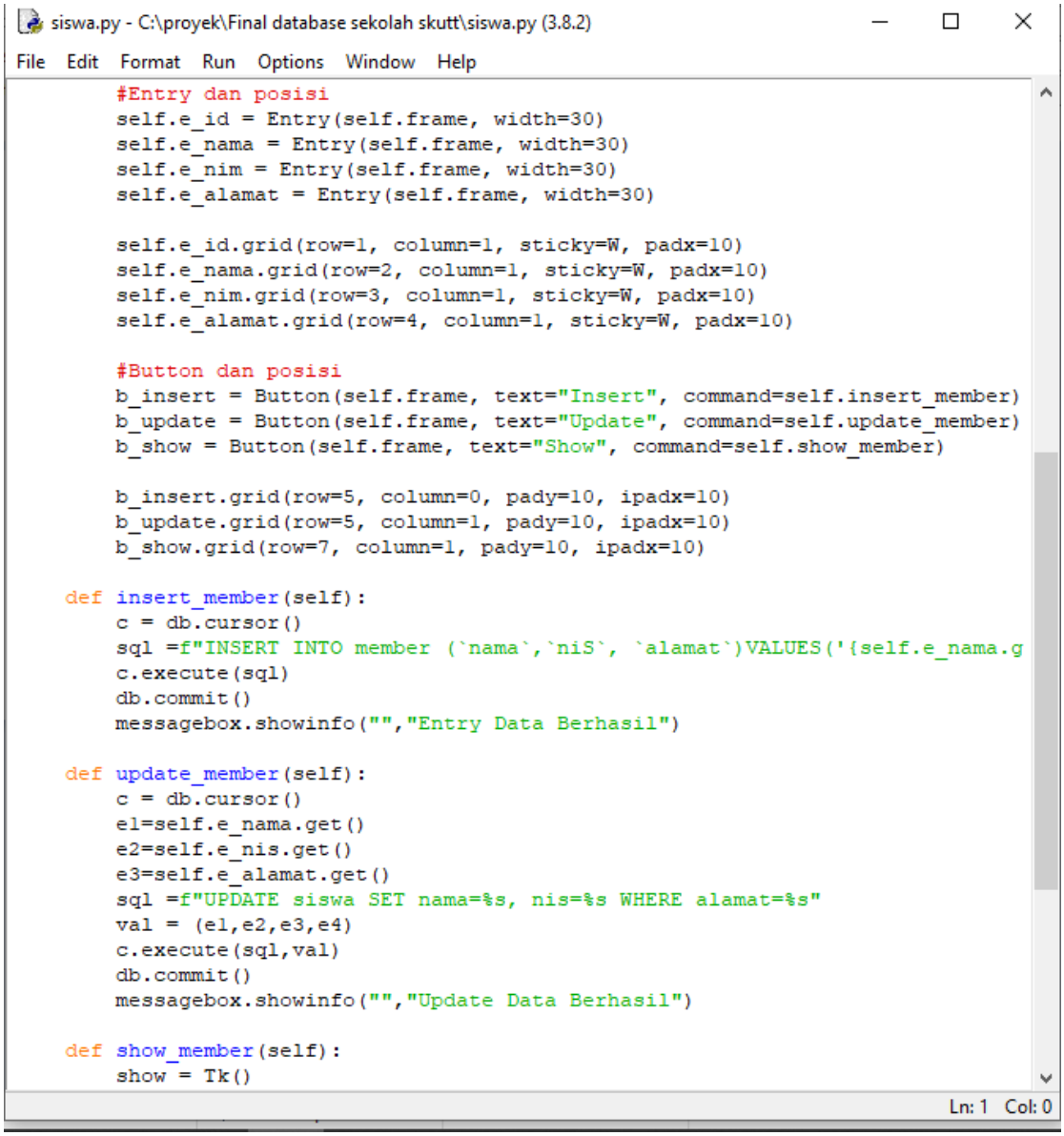
- siswa

siswa.py - C:\proyek\Final database sekolah skutt\siswa.py (3.8.2)

File Edit Format Run Options Window Help

```
import tkinter as tk
import tkinter.messagebox
from tkinter import*
import mysql.connector

db = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="",
    database="sekolah"
    )

c=db.cursor()

class siswa:
    def __init__(self, master):
        self.master = master
        self.master.title("Database siswa")
        self.master.geometry('300x300')
        self.frame = Frame(self.master)
        self.frame.grid()

        title = Label(self.frame, text="Database Siswa", font=('Times', 16, 'bol
        l_nama = Label(self.frame, text="Nama", font=('Times', 12))
        l_nis = Label(self.frame, text="NIS", font=('Times', 12))
        l_alamat = Label(self.frame, text="Alamat", font=('Times', 12))

        title.grid(row=0, columnspan=4, pady=10)
        l_id.grid(row=1, column=0, sticky=W, padx=3)
        l_nama.grid(row=2, column=0, sticky=W, padx=3)
        l_nim.grid(row=3, column=0, sticky=W, padx=3)
        l_alamat.grid(row=4, column=0, sticky=W, padx=3)


        #Entry dan posisi
        self.e_id = Entry(self.frame, width=30)
        self.e_nama = Entry(self.frame, width=30)
        self.e_nim = Entry(self.frame, width=30)
        self.e_alamat = Entry(self.frame, width=30)
```

Ln: 1 Col: 0


siswa.py - C:\proyek\Final database sekolah skutt\siswa.py (3.8.2)
File Edit Format Run Options Window Help
#Entry dan posisi
self.e_id = Entry(self.frame, width=30)
self.e_nama = Entry(self.frame, width=30)
self.e_nim = Entry(self.frame, width=30)
self.e_alamat = Entry(self.frame, width=30)
self.e_id.grid(row=1, column=1, sticky=W, padx=10)
self.e_nama.grid(row=2, column=1, sticky=W, padx=10)
self.e_nim.grid(row=3, column=1, sticky=W, padx=10)
self.e_alamat.grid(row=4, column=1, sticky=W, padx=10)
#Button dan posisi
b_insert = Button(self.frame, text="Insert", command=self.insert_member)
b_update = Button(self.frame, text="Update", command=self.update_member)
b_show = Button(self.frame, text="Show", command=self.show_member)
b_insert.grid(row=5, column=0, pady=10, ipadx=10)
b_update.grid(row=5, column=1, pady=10, ipadx=10)
b_show.grid(row=7, column=1, pady=10, ipadx=10)
def insert_member(self):
c = db.cursor()
sql =f"INSERT INTO member (`nama`,`niS`, `alamat`)VALUES('{self.e_nama.g
c.execute(sql)
db.commit()
messagebox.showinfo("","Entry Data Berhasil")
def update_member(self):
c = db.cursor()
e1=self.e_nama.get()
e2=self.e_nis.get()
e3=self.e_alamat.get()
sql =f"UPDATE siswa SET nama=%s, nis=%s WHERE alamat=%s"
val = (e1,e2,e3,e4)
c.execute(sql,val)
db.commit()
messagebox.showinfo("","Update Data Berhasil")
def show_member(self):
show = Tk()
Ln: 1 Col: 0

siswa.py - C:\proyek\Final database sekolah skutt\siswa.py (3.8.2)

File Edit Format Run Options Window Help

```
mport tkinter as tk
import tkinter.messagebox
from tkinter import*
import mysql.connector

db = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="",
    database="sekolah"
    )

c=db.cursor()

class siswa:
    def __init__(self, master):
        self.master = master
        self.master.title("Database siswa")
        self.master.geometry('300x300')
        self.frame = Frame(self.master)
        self.frame.grid()

        title = Label(self.frame, text="Database Siswa", font=('Times', 16, 'bol
        l_nama = Label(self.frame, text="Nama", font=('Times', 12))
        l_nis = Label(self.frame, text="NIS", font=('Times', 12))
        l_alamat = Label(self.frame, text="Alamat", font=('Times', 12))

        title.grid(row=0, columnspan=4, pady=10)
        l_id.grid(row=1, column=0, sticky=W, padx=3)
        l_nama.grid(row=2, column=0, sticky=W, padx=3)
        l_nim.grid(row=3, column=0, sticky=W, padx=3)
        l_alamat.grid(row=4, column=0, sticky=W, padx=3)


        #Entry dan posisi
        self.e_id = Entry(self.frame, width=30)
        self.e_nama = Entry(self.frame, width=30)
        self.e_nim = Entry(self.frame, width=30)
        self.e_alamat = Entry(self.frame, width=30)
```

Ln: 1 Col: 0

deletesiswaa.py - C:\proyek\Final database sekolah skutt\deletesiswaa.py (3.8.2)

File Edit Format Run Options Window Help

```
import tkinter as tk
import tkinter.messagebox
from tkinter import*
import mysql.connector

db = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="",
    database="sekolah"
    )

c=db.cursor()

class delete_siswa:
    def __init__(self, master):
        self.master = master
        self.frame = Frame(self.master)
        self.frame.grid()

        self.e_delete = Label(self.frame, text="Pilih nis")
        self.e_delete.grid(row=2, column=0, columnspan=2, pady=10, padx=10)
        self.e_nis = Entry(self.frame, width=30)
        self.e_nis.grid(row=4, column=0, columnspan=2, pady=10, padx=10)
        self.b_delete = Button(self.frame, text="Hapus", command=self.delete)
        self.b_delete.grid(row=6, column=0, columnspan=2, pady=10, padx=10)

    def delete(self):
        c=db.cursor()
        el=self.e_id.get()
        sql = "DELETE FROM siswa WHERE nis=%s"
        val=(el, )
        c.execute(sql, val)
        db.commit()
        messagebox.showinfo("", "Data Berhasil Dihapus")
```

Ln: 1 Col: 0

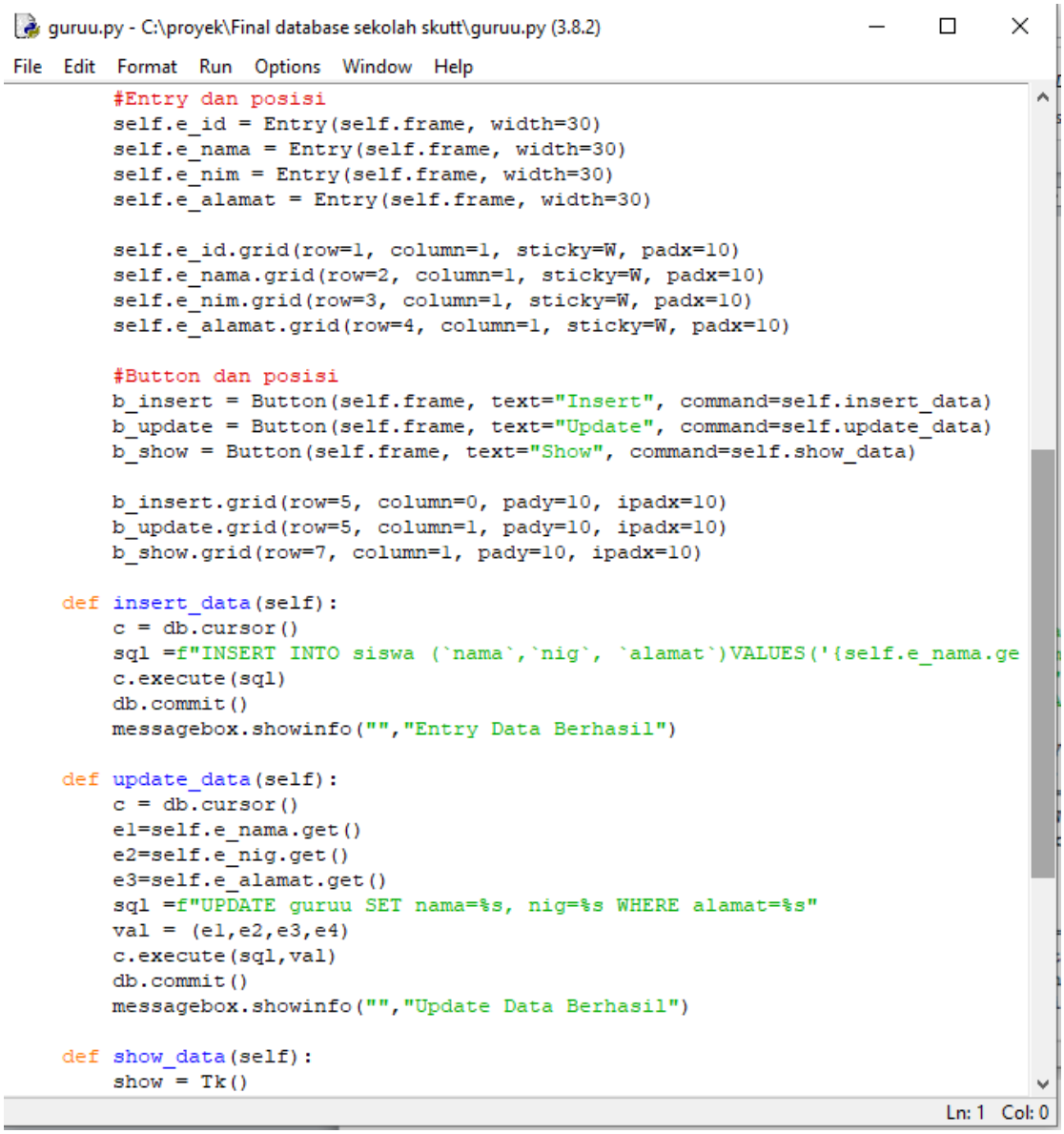
- Guruu

guruu.py - C:\proyek\Final database sekolah skutt\guruu.py (3.8.2)

File Edit Format Run Options Window Help

```
import tkinter as tk
import tkinter.messagebox
from tkinter import*
import mysql.connector

db = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="",
    database="sekolah"
    )

c=db.cursor()

class guru:
    def __init__(self, master):
        self.master = master
        self.master.title("Database Guruu")
        self.master.geometry('300x300')
        self.frame = Frame(self.master)
        self.frame.grid()

        title = Label(self.frame, text="Database Guru", font=('Times', 16, 'bold
        l_nama = Label(self.frame, text="Nama", font=('Times', 12))
        l_nis = Label(self.frame, text="NIg", font=('Times', 12))
        l_alamat = Label(self.frame, text="Alamat", font=('Times', 12))

        title.grid(row=0, columnspan=4, pady=10)
        l_id.grid(row=1, column=0, sticky=W, padx=3)
        l_nama.grid(row=2, column=0, sticky=W, padx=3)
        l_nim.grid(row=3, column=0, sticky=W, padx=3)
        l_alamat.grid(row=4, column=0, sticky=W, padx=3)


        #Entry dan posisi
        self.e_id = Entry(self.frame, width=30)
        self.e_nama = Entry(self.frame, width=30)
        self.e_nim = Entry(self.frame, width=30)
        self.e_alamat = Entry(self.frame, width=30)
```

Ln: 1 Col: 0


guruu.py - C:\proyek\Final database sekolah skutt\guruu.py (3.8.2)
File Edit Format Run Options Window Help
#Entry dan posisi
self.e_id = Entry(self.frame, width=30)
self.e_nama = Entry(self.frame, width=30)
self.e_nim = Entry(self.frame, width=30)
self.e_alamat = Entry(self.frame, width=30)
self.e_id.grid(row=1, column=1, sticky=W, padx=10)
self.e_nama.grid(row=2, column=1, sticky=W, padx=10)
self.e_nim.grid(row=3, column=1, sticky=W, padx=10)
self.e_alamat.grid(row=4, column=1, sticky=W, padx=10)
#Button dan posisi
b_insert = Button(self.frame, text="Insert", command=self.insert_data)
b_update = Button(self.frame, text="Update", command=self.update_data)
b_show = Button(self.frame, text="Show", command=self.show_data)
b_insert.grid(row=5, column=0, pady=10, ipadx=10)
b_update.grid(row=5, column=1, pady=10, ipadx=10)
b_show.grid(row=7, column=1, pady=10, ipadx=10)
def insert_data(self):
c = db.cursor()
sql =f"INSERT INTO siswa (`nama`,`nig`, `alamat`)VALUES('{self.e_nama.ge
c.execute(sql)
db.commit()
messagebox.showinfo("","Entry Data Berhasil")
def update_data(self):
c = db.cursor()
e1=self.e_nama.get()
e2=self.e_nig.get()
e3=self.e_alamat.get()
sql =f"UPDATE guruu SET nama=%s, nig=%s WHERE alamat=%s"
val = (e1,e2,e3,e4)
c.execute(sql,val)
db.commit()
messagebox.showinfo("","Update Data Berhasil")
def show_data(self):
show = Tk()
Ln: 1 Col: 0

guruu.py - C:\proyek\Final database sekolah skutt\guruu.py (3.8.2)

File Edit Format Run Options Window Help

```
    def insert_data(self):
        c = db.cursor()
        sql =f"INSERT INTO siswa (`nama`,`nig`, `alamat`)VALUES('{self.e_nama.ge
        c.execute(sql)
        db.commit()
        messagebox.showinfo("","Entry Data Berhasil")

    def update_data(self):
        c = db.cursor()
        e1=self.e_nama.get()
        e2=self.e_nig.get()
        e3=self.e_alamat.get()
        sql =f"UPDATE guruu SET nama=%s, nig=%s WHERE alamat=%s"
        val = (e1,e2,e3,e4)
        c.execute(sql,val)
        db.commit()
        messagebox.showinfo("","Update Data Berhasil")

    def show_data(self):
        show = Tk()
        show.title("Data Guru")
        Label(show, text="Nama").grid(row=0, column=1, sticky=W)
        Label(show, text="NIG").grid(row=0, column=2, sticky=W)
        Label(show, text="Alamat").grid(row=0, column=3, sticky=W)



        sql="select*from guruu"
        c.execute(sql)
        Member = c.fetchall()

        for i in range(len(guruu)):
            for j in range(len(guruu[i])):
                teks=Entry(show)
                teks.grid(row=i+1,column=j)
                teks.insert(END,data[i][j])
```

Ln: 73 Col: 0

deleteguruu.py - C:\proyek\Final database sekolah skutt\deleteguruu.py (3.8.2)

File Edit Format Run Options Window Help

```
import tkinter as tk
import tkinter.messagebox
from tkinter import*
import mysql.connector

db = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="",
    database="sekolah"
    )

c=db.cursor()

class delete_data:
    def __init__(self, master):
        self.master = master
        self.frame = Frame(self.master)
        self.frame.grid()

        self.e_delete = Label(self.frame, text="Pilih nig ")
        self.e_delete.grid(row=2, column=0, columnspan=2, pady=10, padx=10)
        self.e_nig = Entry(self.frame, width=30)
        self.e_nig.grid(row=4, column=0, columnspan=2, pady=10, padx=10)
        self.b_delete = Button(self.frame, text="Hapus", command=self.delete)
        self.b_delete.grid(row=6, column=0, columnspan=2, pady=10, padx=10)

    def delete(self):
        c=db.cursor()
        el=self.e_id.get()
        sql = "DELETE FROM guruu WHERE nig=%s"
        val=(el, )
        c.execute(sql, val)
        db.commit()
        messagebox.showinfo("", "Data Berhasil Dihapus")
```

Ln: 1 Col: 0

- Pelajaran

pelajaran.py - C:\proyek\Final database sekolah skutt\pelajaran.py (3.8.2)

File Edit Format Run Options Window Help

```
import tkinter as tk
import tkinter.messagebox
from tkinter import*
import mysql.connector

db = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="",
    database="sekolah"
    )

c=db.cursor()

class pelajaran:
    def __init__(self, master):
        self.master = master
        self.master.title("Database pelajaran")
        self.master.geometry('300x300')
        self.frame = Frame(self.master)
        self.frame.grid()

        title = Label(self.frame, text="Database pelajaran", font=('Times', 16,
        l_kode = Label(self.frame, text="Kode", font=('Times', 12))
        l_nama = Label(self.frame, text="Nama", font=('Times', 12))
        l_pengajar = Label(self.frame, text="Pengajar", font=('Times', 12))

        title.grid(row=0, columnspan=4, pady=10)
        l_id.grid(row=1, column=0, sticky=W, padx=3)
        l_nama.grid(row=2, column=0, sticky=W, padx=3)
        l_nim.grid(row=3, column=0, sticky=W, padx=3)
        l_alamat.grid(row=4, column=0, sticky=W, padx=3)


        #Entry dan posisi
        self.e_id = Entry(self.frame, width=30)
        self.e_nama = Entry(self.frame, width=30)
        self.e_nim = Entry(self.frame, width=30)
        self.e_alamat = Entry(self.frame, width=30)
```

Ln: 1 Col: 0

pelajaran.py - C:\proyek\Final database sekolah skutt\pelajaran.py (3.8.2)

File Edit Format Run Options Window Help

```
        #Entry dan posisi
        self.e_id = Entry(self.frame, width=30)
        self.e_nama = Entry(self.frame, width=30)
        self.e_nim = Entry(self.frame, width=30)
        self.e_alamat = Entry(self.frame, width=30)

        self.e_id.grid(row=1, column=1, sticky=W, padx=10)
        self.e_nama.grid(row=2, column=1, sticky=W, padx=10)
        self.e_nim.grid(row=3, column=1, sticky=W, padx=10)
        self.e_alamat.grid(row=4, column=1, sticky=W, padx=10)

        #Button dan posisi
        b_insert = Button(self.frame, text="Insert", command=self.insert_data)
        b_update = Button(self.frame, text="Update", command=self.update_data)
        b_show = Button(self.frame, text="Show", command=self.show_data)

        b_insert.grid(row=5, column=0, pady=10, ipadx=10)
        b_update.grid(row=5, column=1, pady=10, ipadx=10)
        b_show.grid(row=7, column=1, pady=10, ipadx=10)

    def insert_data(self):
        c = db.cursor()
        sql ="INSERT INTO pelajaran (`kode`,`nama`, `pengajar`)VALUES('{self.e_k
        c.execute(sql)
        db.commit()
        messagebox.showinfo("","Entry Data Berhasil")

    def update_data(self):
        c = db.cursor()
        e1=self.e_kode.get()
        e2=self.e_nama.get()
        e3=self.e_pengajar.get()
        sql ="UPDATE pelajaran SET kode=%s, nama=%s WHERE pengajar=%s"
        val = (e1,e2,e3,e4)
        c.execute(sql,val)
        db.commit()
        messagebox.showinfo("","Update Data Berhasil")

    def show_data(self):
        show = Tk()
```

Ln: 1 Col: 0

pelajaran.py - C:\proyek\Final database sekolah skutt\pelajaran.py (3.8.2)

File Edit Format Run Options Window Help

```
    def insert_data(self):
        c = db.cursor()
        sql ="INSERT INTO pelajaran (`kode`,`nama`, `pengajar`)VALUES('{self.e_k
        c.execute(sql)
        db.commit()
        messagebox.showinfo("","Entry Data Berhasil")

    def update_data(self):
        c = db.cursor()
        e1=self.e_kode.get()
        e2=self.e_nama.get()
        e3=self.e_pengajar.get()
        sql ="UPDATE pelajaran SET kode=%s, nama=%s WHERE pengajar=%s"
        val = (e1,e2,e3,e4)
        c.execute(sql,val)
        db.commit()
        messagebox.showinfo("","Update Data Berhasil")

    def show_data(self):
        show = Tk()
        show.title("Data Guru")
        Label(show, text="Nama").grid(row=0, column=1, sticky=W)
        Label(show, text="NIG").grid(row=0, column=2, sticky=W)
        Label(show, text="Alamat").grid(row=0, column=3, sticky=W)



        sql="select*from pelajaran"
        c.execute(sql)
        Member = c.fetchall()

        for i in range(len(pelajaran)):
            for j in range(len(pelajaran[i])):
                teks=Entry(show)
                teks.grid(row=i+1,column=j)
                teks.insert(END,data[i][j])
```

Ln: 1 Col: 0

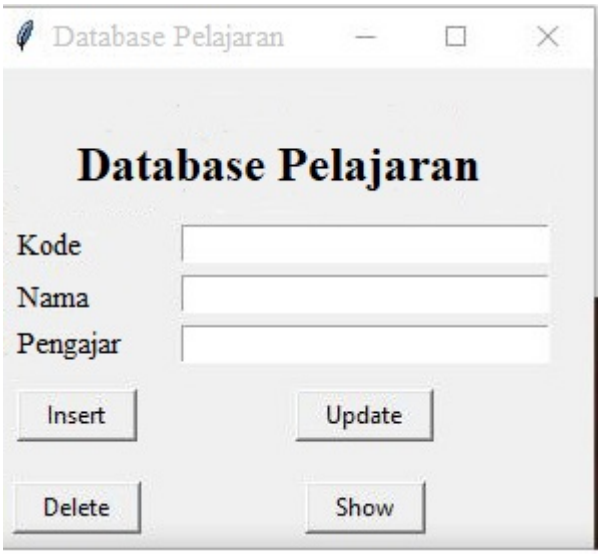
deletepelajaran.py - C:\proyek\Final database sekolah skutt\deletepelajaran.py (3.8.2)

File Edit Format Run Options Window Help

```
import tkinter as tk
import tkinter.messagebox
from tkinter import*
import mysql.connector

db = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="",
    database="sekolah"
    )

c=db.cursor()

class delete_data:
    def __init__(self, master):
        self.master = master
        self.frame = Frame(self.master)
        self.frame.grid()

        self.e_delete = Label(self.frame, text="Pilih kode pelajaran ")
        self.e_delete.grid(row=2, column=0, columnspan=2, pady=10, padx=10)
        self.e_nig = Entry(self.frame, width=30)
        self.e_nig.grid(row=4, column=0, columnspan=2, pady=10, padx=10)
        self.b_delete = Button(self.frame, text="Hapus", command=self.delete)
        self.b_delete.grid(row=6, column=0, columnspan=2, pady=10, padx=10)

    def delete(self):
        c=db.cursor()
        el=self.e_id.get()
        sql = "DELETE FROM pelajaran WHERE kode=%s"
        val=(el, )
        c.execute(sql, val)
        db.commit()
        messagebox.showinfo("", "Data Berhasil Dihapus")
```

Ln: 1 Col: 0

Eksekusi Program



Data Siswa

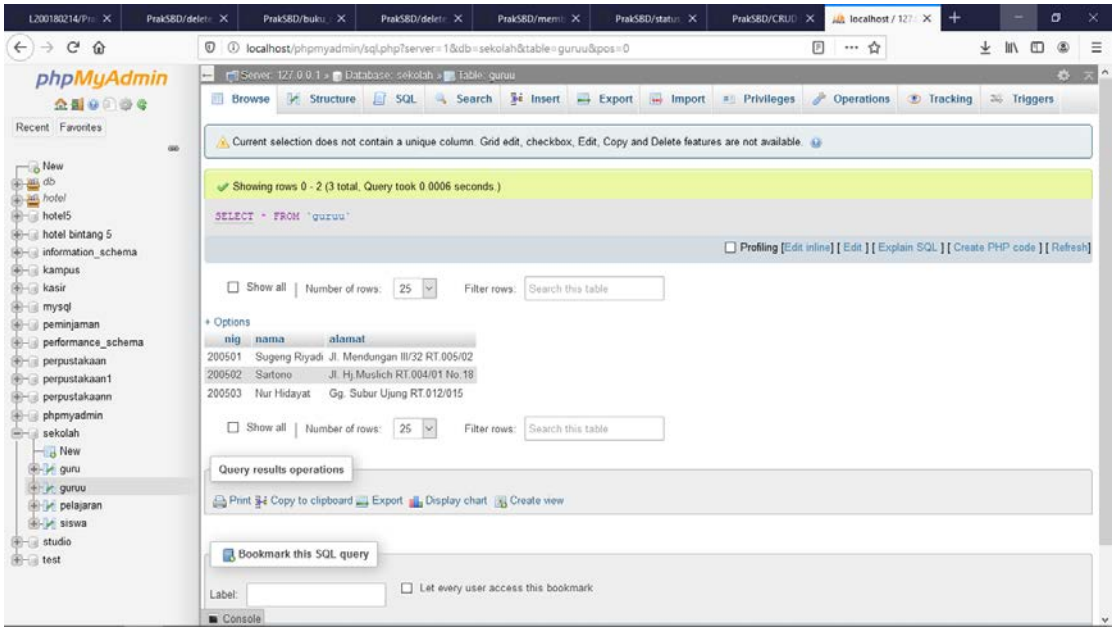
Nama	Nis	Alamat
Septian H	200500002	Jl. Garuda III/32 RT.005/03
Amalia	200500003	Jl. Ciak RT.004/01 No.18
Neymar	200500004	Gg. Subur Ujung No.12 RT.012/015

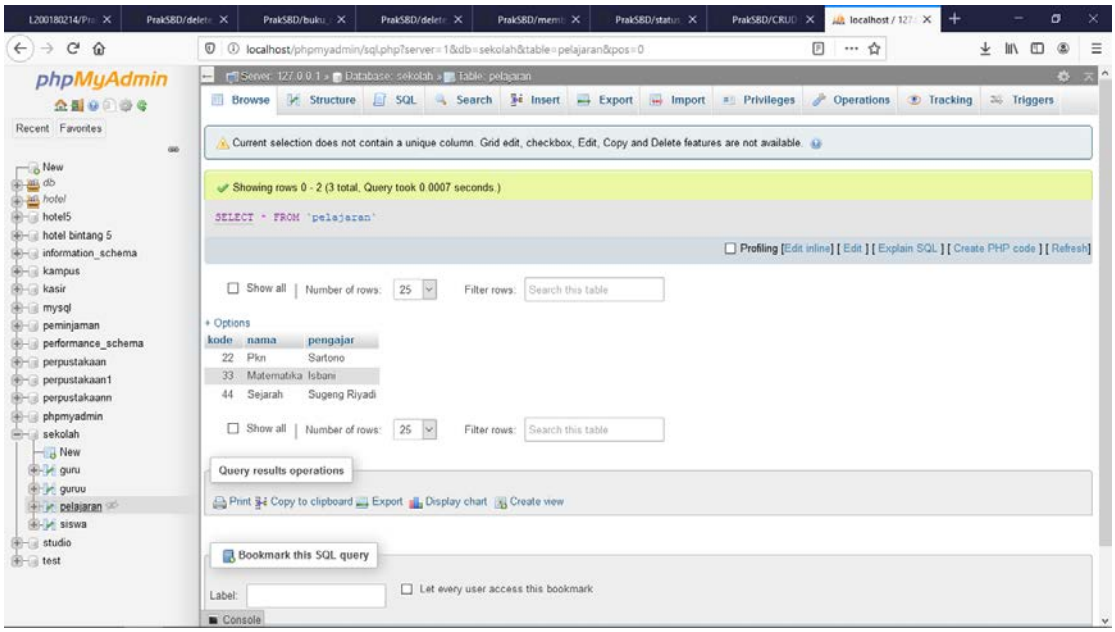
Data Guru

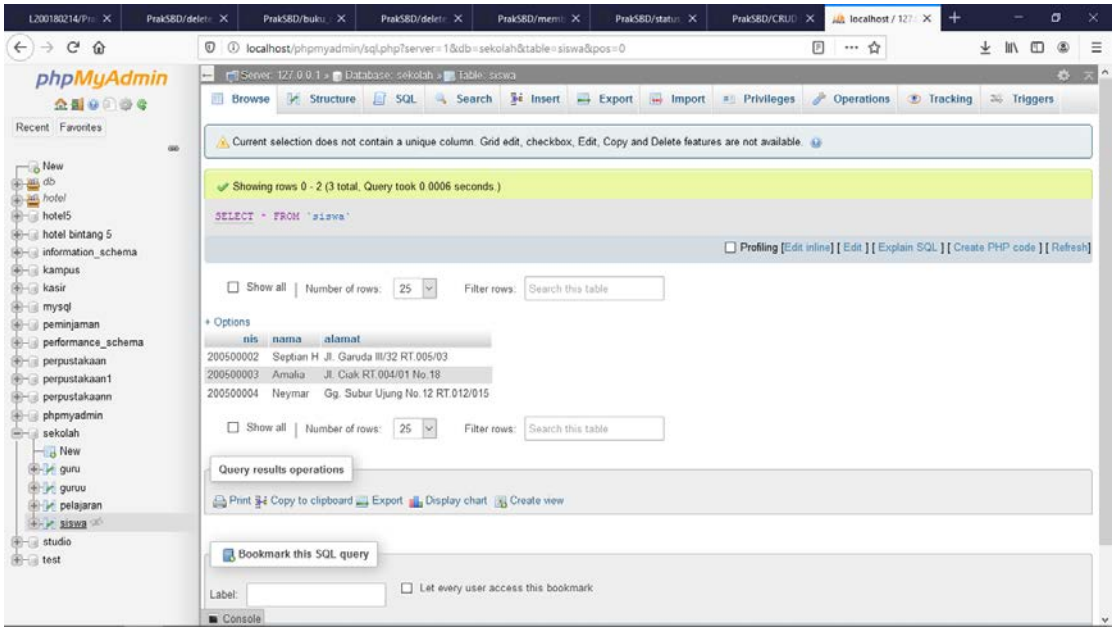
Nama	NIG	Alamat
Sugeng Riyadi	200501	Jl. Mendungan III/32 RT.005/02
Sartono B	200502	Jl. Hj.Muslich RT.004/01 No.18
Nur Hidayat	200503	Gg. Subur Ujung RT.012/015

Data Pelajaran

Kode	Nama	Pengajar
22	Pkn	Sartono
33	Matematika	Isbani
44	Sejarah	Sugeng Riyadi


localhost/phpmyadmin/sql.php?server=1&db=sekolah&table=guruu&pos=0
phpMyAdmin
Server: 127.0.0.1 » Database: sekolah » Table: guruu
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)
SELECT * FROM `guruu`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
Options
nig nama alamat
200501 Sugeng Riyadi Jl. Mendungan III/32 RT.005/02
200502 Sartono Jl. Hj.Muslich RT.004/01 No.18
200503 Nur Hidayat Gg. Subur Ujung RT.012/015
Query results operations
Print Copy to clipboard Export Display chart Create view
Bookmark this SQL query
Label:
Let every user access this bookmark
Console


localhost/phpmyadmin/sql.php?server=1&db=sekolah&table=pelajaran&pos=0
phpMyAdmin
Server: 127.0.0.1 » Database: sekolah » Table: pelajaran
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 2 (3 total, Query took 0.0007 seconds.)
SELECT * FROM `pelajaran`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
Options
kode nama pengajar
22 Pkn Sartono
33 Matematika Isbani
44 Sejarah Sugeng Riyadi
Query results operations
Print Copy to clipboard Export Display chart Create view
Bookmark this SQL query
Label:
Let every user access this bookmark
Console


phpMyAdmin
Recent Favorites
New
db
hotel
hotel5
hotel bintang 5
information_schema
kampus
kasir
mysql
peminjaman
performance_schema
perpustakaan
perpustakaan1
perpustakaann
phpmyadmin
sekolah
New
guru
guruu
pelajaran
siswa
studio
test
localhost/phpmyadmin/sql.php?server=1&db=sekolah&table=siswa&pos=0
Server: 127.0.0.1 » Database: sekolah » Table: siswa
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)
SELECT * FROM `siswa`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
nis nama alamat
200500002 Septian H Jl. Garuda III/32 RT.005/03
200500003 Amalia Jl. Ciak RT.004/01 No.18
200500004 Neymar Gg. Subur Ujung No.12 RT.012/015
Show all | Number of rows: 25 Filter rows: Search this table
Query results operations
Print Copy to clipboard Export Display chart Create view
Bookmark this SQL query
Label:
Let every user access this bookmark
Console