TUGAS PRAKTIKUM SISTEM BASIS DATA MODUL 12. APLIKASI DENGAN DATABASE

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NIM : L200160055

Kelas : A

Service Mobil

Entity

- mobil
- jenisLayanan
- transaksi

Attributes

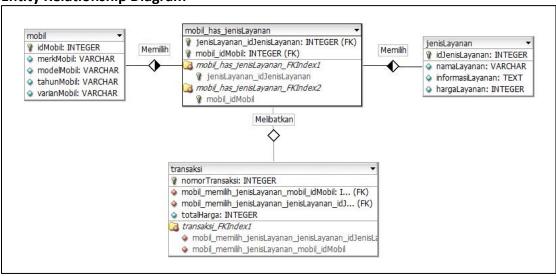
- mobil
 - idMobil INTEGER PK
 merkMobil VARCHAR(25)
 modelMobil VARCHAR(25)
 tahunMobil VARCHAR(25)
 varianMobil VARCHAR(25)
- jenisLayanan
 - idJenisLayanan INTEGER PK
 namaLayanan VARCHAR(25)
 informasiLayanan VARCHAR(100)
 hargaLayanan INTEGER
- transaksi
 - nomorTransaksi INTEGER PKtanggalTransaksi DATE

Relationship

- mobil memilih jenisLayanan
 - Tabel utama : mobil
 - Tabel kedua : jenisLayanan
 - Relationship : Many to Many (m:n)
 - Attribute penghubung : idMobil, idJenisLayanan (FK idMobil, idJenisLayanan
 - di mobil_has_jenisLayanan)
- transaksi melibatkan mobil_has_jenisLayanan
 - Tabel utama : transaksi
 - Tabel kedua : mobil_has_jenisLayanan
 - Relationship : One to Many (1:1)

- Attribute penghubung : idMobil, idJenisLayanan (FK idMobil, idJenisLayanan di transaksi)

Entity Relationship Diagram

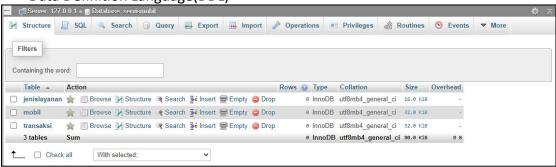


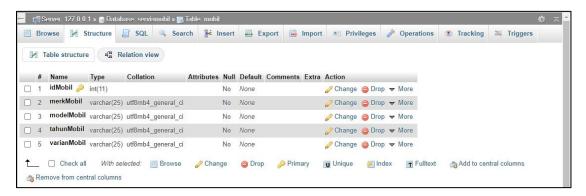
Normalisasi

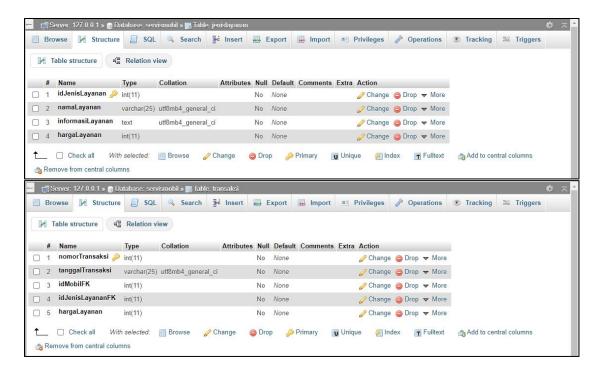
Implementasi

Database:

Data Definition Language(DDL)



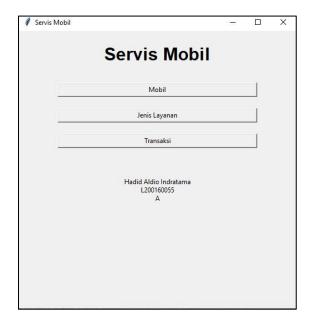




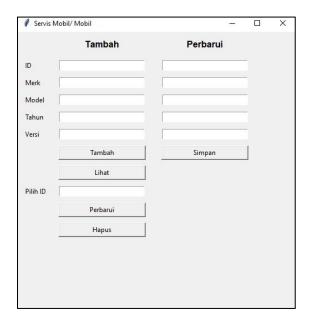
Data Manipulation Language(DML)

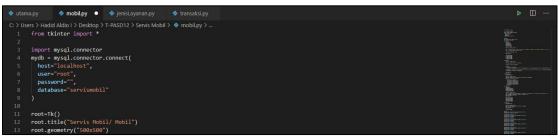
Python:

- Halaman Utama



- Halaman Mobil





```
132 16-Label(root, text="Pilih ID")

133 16-grid(row-8, colum-0, padx=10, pady=5)

134 e6-Entry(root, width=25)

135 e6-grid(row-8, colum-1)

136 b3-Button(root, text="Perbarui", command=perbarui, width=21)

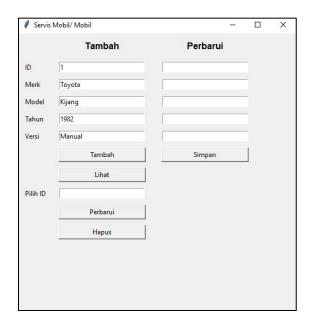
137 b3-Button(root, text="Perbarui", command=perbarui, width=21)

138 b3-Button(root, text="Perbarui", command=perbarui, width=21)

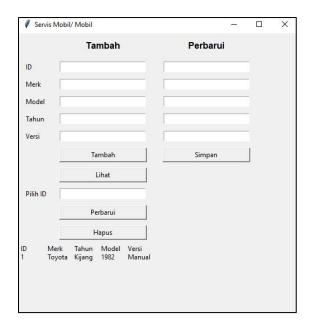
139 b4-Button(root, text="Hapus", command=pady=5)

140 b4-grid(row-10, column=1, columnspan=1, padx=10, pady=5)
```

- Halaman Mobil/Fitur: Tambah



- Halaman Mobil/Fitur: Lihat



```
def lihat():
    mycursor = mydb.cursor()
    mycursor.execute("SELECT * FROM mobil")

myresult = mycursor.fetchall()

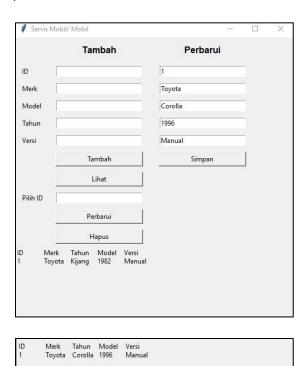
result ="""
for myresult in myresult:
    result +=str(myresult[0])+"\t"+str(myresult[2])+"\t"+str(myresult[3])+"\t"+str(myresult[4])+"\n"

11-Label(root, text="ID"+"\t"+"Merk"+"\t"+"Model"+"\t"+"Versi"+"\n"+result,justify-LEFT)

11.grid(row=1; column=0, columnspan=4, padx=10)

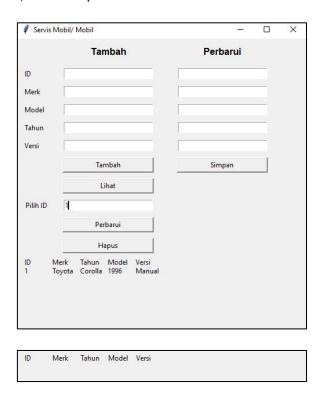
mydb.commit()
```

- - Halaman Mobil/Fitur: Perbarui

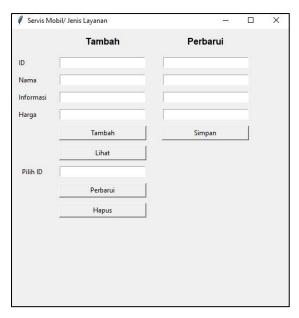


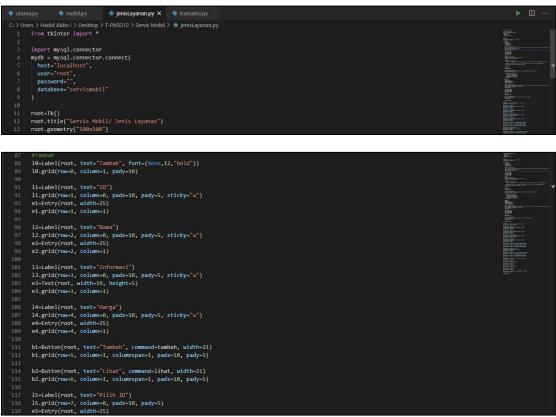
```
| def simpan():
| id=ept.pet()
| remrkBaru=ep2.get()
| remrkBaru=ep3.get()
| remrkBaru=ep3.get()
| remrkBaru=ep5.get()
| remrkBaru=e
```

- Halaman Mobil/ Fitur: Hapus

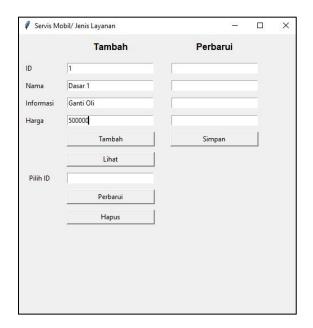


- Halaman Jenis Layanan

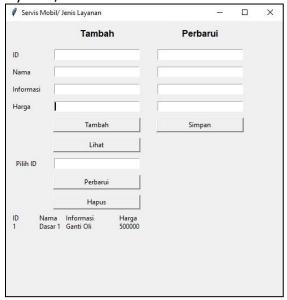




- Halaman Jenis Layanan/Fitur: Tambah



- Halaman Jenis Layanan/Fitur: Lihat



- Halaman Jenis Layanan/Fitur: Perbarui

Servis M	obil/ Jenis Layanan	3,550	×
	Tambah	Perbarui	
D	Г	1	
Nama		Dasar 2	
Informasi		Ganti Kampas	
Harga		750000	
	Tambah	Simpan	
	Lihat		
Pilih ID	1		
	Perbarui		
	Hapus	_	
	ama Informasi Hargi Isar 1 Ganti Oli 50000	0	

Nama	Informasi	Harga		
Dasar 2	Ganti Kampas		750000	
		Nama Informasi Dasar 2 Ganti Kampas		

```
def perbarui():
plihitDes.get()

mycursor = mydb.cursor()
myrcursor.execute("SELECT * FROM jenisLayanan iMERE idJenisLayanan="+plihitD)

myresult = mycursor.fetchall()

for myresult in myresult:
epl.insert(0, myresult[0])
ep2.insert(0, myresult[1])
ep3.insert(0, myresult[2])
ep4.insert(0, myresult[3])
mydb.commit()

def simpan():
id=ep1.get()
namaBaru-ep2.get()
hargaBaru-ep2.get()
hargaBaru-ep4.get()

mycursor = mydb.cursor()
sql = "UPDATE jenisLayanan SET ramaLayanan-%s, informasiLayanan-%s, hargaLayanan-%s MHERE idJenisLayanan = %s"
val = (namaBaru, informasiBaru, hargaBaru, id)
mycursor.execute(sql, val)
mydb.commit()

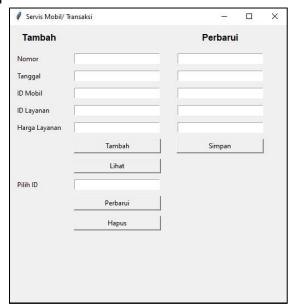
ep1.delete(0,END)
ep2.delete(0,END)
ep3.delete(0,END)
ep3.delete(0,END)
ep3.delete(0,END)
ep3.delete(0,END)
ep3.delete(0,END)
ep3.delete(0,END)
ep3.delete(0,END)
```

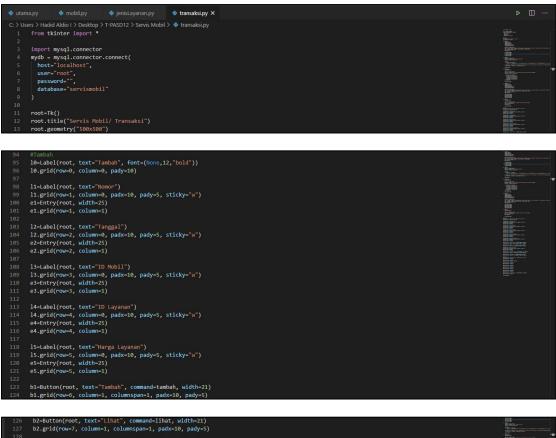
- Halaman Jenis Layanan/Fitur: Hapus



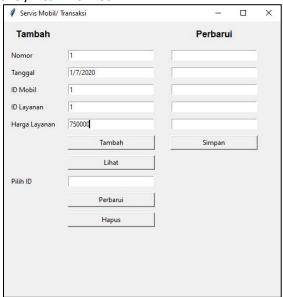
	def hapus():	Bks-
	pilihID=e5.get()	Egicija vers
		EURE ESSE
	mycursor = mydb.cursor()	High market are not
	sql = "DELETE FROM jenisLayanan WHERE idJenisLayanan="+pilihID	語: and
	mycursor.execute(sq1)	SECTION AND ADDRESS OF
	mydb.commit()	NOT THE REAL PROPERTY.
		ETECH CONTRACTOR TO A PERSON AND A PERSON AN
85	e5.delete(0,END)	EDAS SER

- Halaman Transaksi





- Halaman Transaksi/Fitur: Tambah



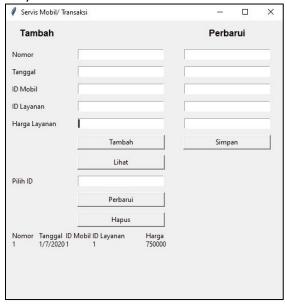
```
def tambah():
nomor-el.get()
tanggal-e2.get()
id/bobll-e3.get()
id/bobll-e3.get()
id/bobll-e3.get()

mycursor = mydb.cursor()
sql = "NSERT INTO transaksi(nomorTransaksi, tanggalTransaksi, idMobilFK, idJenisLayananFK, hargaLayanan) VALUES (%s,%s,%s,%s,%s)"

val = (nomor, tanggal, idMobil, idJenisLayanan, hargaLayanan)
mydb.cursor.execute(sql, val)
mydb.commlt()

dei.delete(0,END)
e2.delete(0,END)
e3.delete(0,END)
e3.delete(0,END)
e4.delete(0,END)
e5.delete(0,END)
```

- Halaman Transaksi/Fitur: Lihat



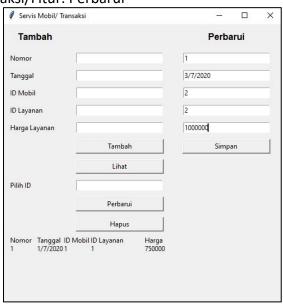
```
def lihat():

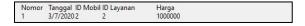
mycursor, smydb.cursor()

mycursor, execute("SELECT * FROM transaksi")

myrcusor, execute("SELECT *
```

- Halaman Transaksi/Fitur: Perbarui





```
def perbarui():
    pilihiD=e6.get()
    mycursor = mydb.cursor()
    mycursor.execute("SELECT * FROM transaksi WHERE nomorTransaksi="+pilihID)
    myresult = mycursor.fetchall()

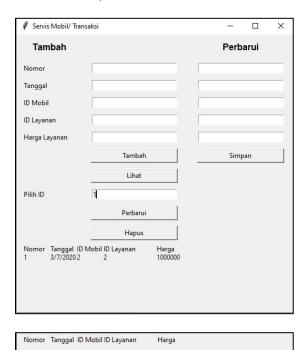
for myresult in myresult:
    ep1.insert(0, myresult[0])
    ep2.insert(0, myresult[1])
    ep3.insert(0, myresult[2])
    ep4.insert(0, myresult[2])
    ep5.insert(0, myresult[2])
    ep5.insert(0, myresult[2])
    ep5.insert(0, myresult[2])
    ep5.insert(0, myresult[2])
    ep6.delete(0,FND)
```

```
def simpan():
    nomor=epl.get()
    tanggal=ep2.get()
    iddenislayanan-ep4.get()
    iddenislayanan-ep4.get()
    hargalayanan-ep5.get()

mycursor = mydb.cursor()
    sql = "UPDATE transaksi SET tanggalTransaksi-%s, idMobilFK-%s, idJenislayanan-K-%s, hargalayanan-%s WHERE nomorTransaksi-%s"
    val = (tanggal, idMobil, idJenislayanan, hargalayanan, nomor)
    mycursor.execute(sql, val)
    mycursor.execute(sql, val)
    mycursor.execute(sql, val)
    mydb.commit()

    ep1.delete(0,END)
    ep2.delete(0,END)
    ep3.delete(0,END)
    ep3.delete(0,END)
    ep4.delete(0,END)
    ep5.delete(0,END)
    ep5.delete(0,END)
```

- Halaman Transaksi/Fitur: Hapus



84	def hapus():	TOTAL
	pilihID=e6.get()	1000 III 4000
		Julia Re-
	mycursor = mydb.cursor()	DEFORMAN
	sql = "DELETE FROM transaksi WHERE nomorTransaksi="+pilihID	IIII
	<pre>mycursor.execute(sq1)</pre>	IIII
	mydb.commit()	Eliza Surgario de la constitución de la constitució
		150 Marin
	e6.delete(0.END)	SEE MANAGEMENT