# SQL

1Harjutus

ATTACH DATABASE 'pood\_tkandmaa.db' as 'epood';

.tables

Select \* from tkandmaa

CREATE TABLE tkandmaa(

id INTEGER PRIMARY KEY AUTOINCREMENT,

first\_name VARCHAR(255) NOT NULL,

last\_name VARCHAR(255) NOT NULL,

email VARCHAR(255) NOT NULL,

car\_make VARCHAR(255) NOT NULL,

car\_model VARCHAR(255) NOT NULL,

car\_year INTEGER NOT NULL,

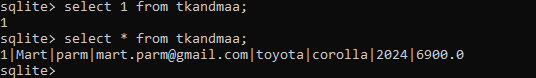
car\_price REAL NOT NULL);

INSERT INTO tkandmaa(first\_name,last\_name,email,car\_make,car\_model,car\_year,car\_price)

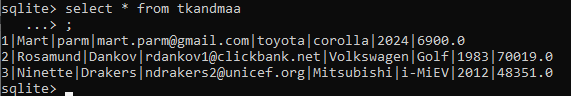
VALUES( „Mart“, „parm“, „[mart.parm@gmail.com](mailto:mart.parm@gmail.com)“, „toyota“, „corolla“, 2024, 6900.00);

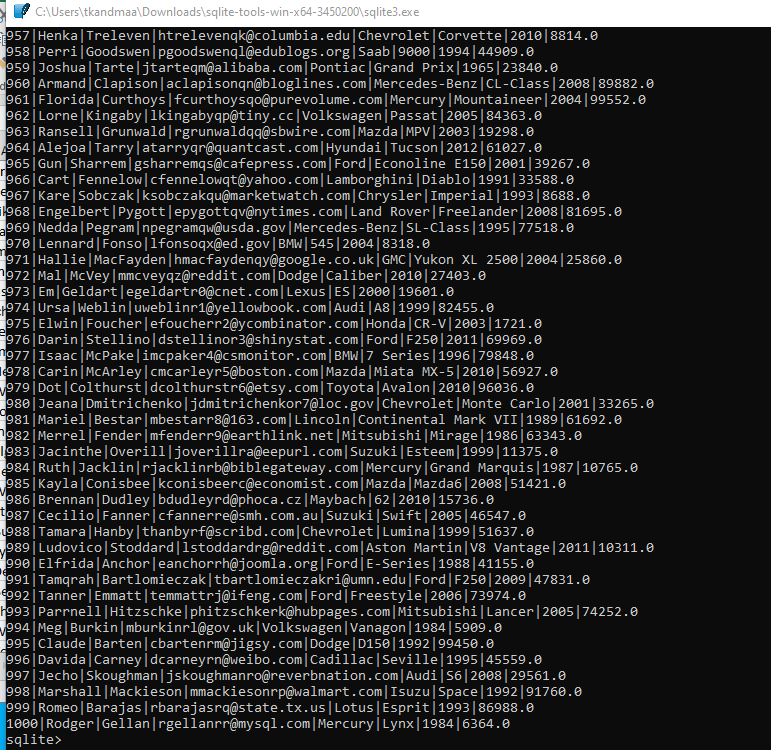
VALUES( „Karlos“, „Kolk“, „[karlos.kolk@gmail.com](mailto:karlos.kolk@gmail.com)“, „honda“, „civic“, 1978, 33.00),

VALUES( „Tiit“, „koer“, „[tiit.koer @gmail.com](mailto:karlos.kolk@gmail.com)“, „bmw“, „bambus“, 2004, 1200.00);



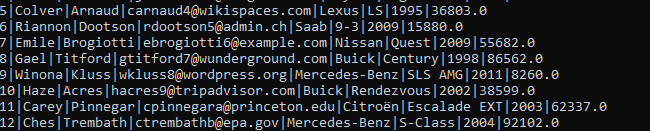
SEE TÖÖTAB!!!



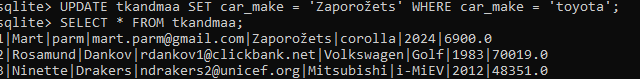


# Üelesanaen 2

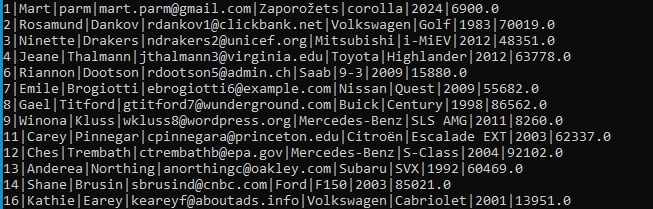
UPDATE tkandmaa SET car\_make = 'Citroën' WHERE car\_make = 'Cadillac';



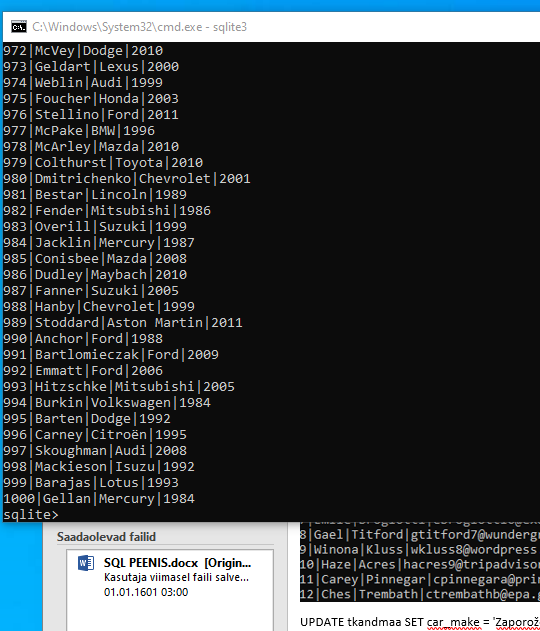
UPDATE tkandmaa SET car\_make = 'Zaporožets' WHERE car\_make = 'toyota'



DELETE FROM tkandmaa WHERE id IN (5, 10, 15);



SELECT id, last\_name AS perenimi, car\_make AS automark, car\_year AS aasta FROM tkandmaa ORDER BY id ASC;



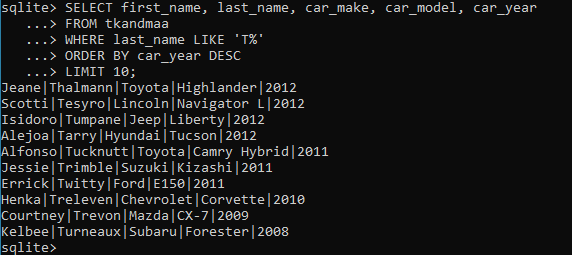
SELECT first\_name, last\_name, car\_make, car\_model, car\_year

FROM tkandmaa

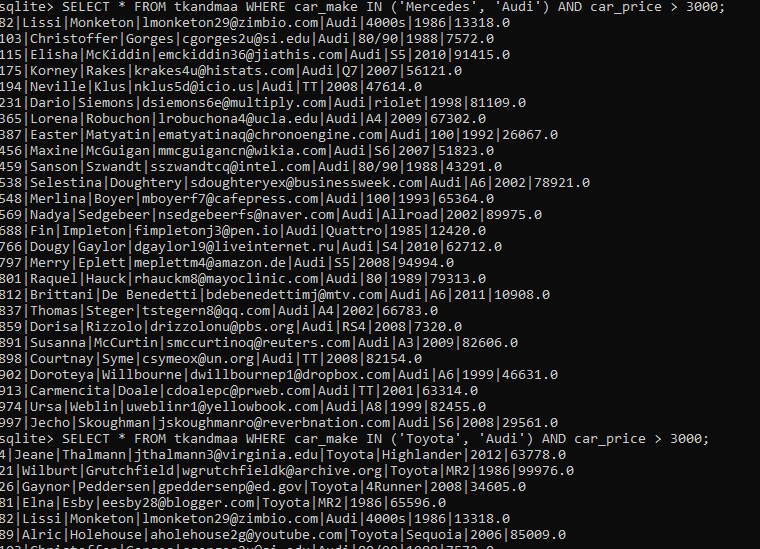
WHERE last\_name LIKE 'T%'

ORDER BY car\_year DESC

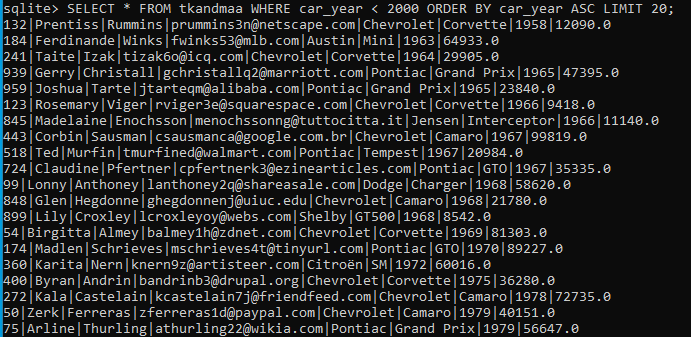
LIMIT 10;



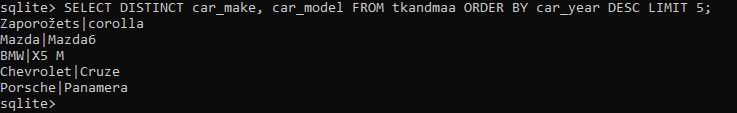
SELECT \* FROM tkandmaa WHERE car\_make IN ('Toyota', 'Audi') AND car\_price > 3000;



# Harjutus 3



SELECT AVG(car\_year) AS keskmine\_aasta, MAX(car\_price) AS kõige\_kallim\_hind FROM tkandmaa;



DELETE FROM tkandmaa WHERE id = **20 ( vali number ja KUSTUAB**

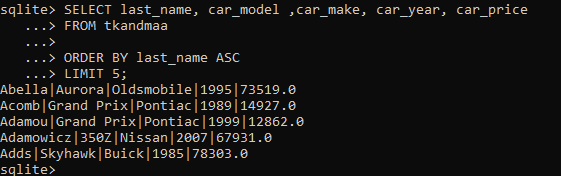
DELETE FROM autod WHERE car\_year < 2000 AND car\_make = 'Mercedes';

SELECT last\_name, car\_model ,car\_make, car\_year, car\_price

FROM tkandmaa

ORDER BY last\_name ASC

LIMIT 5;



.mode csv

.headers on

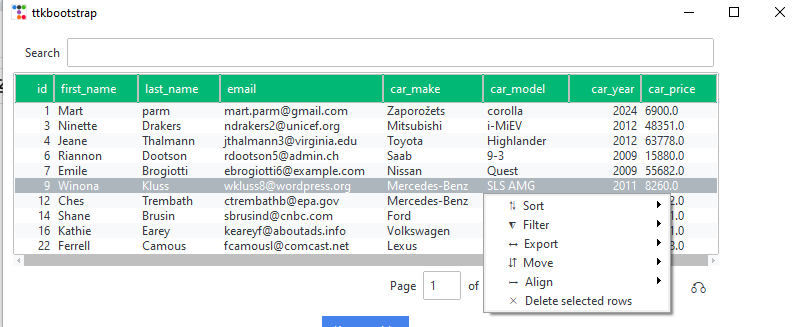
.output sqlliteautod.csv

SELECT \* FROM tkandmaa;

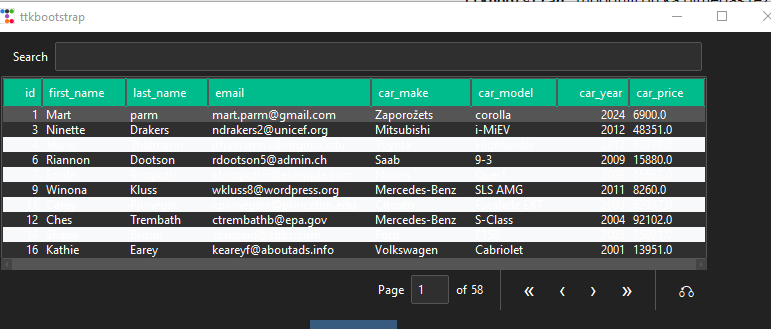
Lisan csv fiali kuhugi ara muretse mario :D: D:D :D D:D:D

Pythoni osa

Kustutamine töötab. Testimiseks kustutasin 11. ära



Tänu selle style=dark asjale näeb see väga imelik välja.



import ttkbootstrap as ttk

import sqlite3

from ttkbootstrap.tableview import Tableview

from ttkbootstrap.constants import \*

from ttkbootstrap import Style

def delete\_row():

selected\_row = dv.get\_selected\_row()

if selected\_row:

confirmation = messagebox.askyesno("Kustuta rida", "Kas olete kindel, et soovite selle rea kustutada?")

if confirmation:

index = dv.get\_selected\_index()

dv.delete\_row(index)

delete\_from\_database(selected\_row[0]) # Kustutame andmebaasist vastava rea

def delete\_from\_database(row\_id):

connection = sqlite3.connect('epood\_tkandmaa.db')

cursor = connection.cursor()

cursor.execute('DELETE FROM tkandmaa WHERE id=?', (row\_id,))

connection.commit()

connection.close()

def show\_percentage():

connection = sqlite3.connect('epood\_tkandmaa.db')

cursor = connection.cursor()

cursor.execute('SELECT COUNT(\*) FROM tkandmaa')

total\_cars = cursor.fetchone()[0]

cursor.execute('SELECT COUNT(\*) FROM tkandmaa WHERE car\_make=?', ('Mercedes',))

mercedes\_count = cursor.fetchone()[0]

cursor.execute('SELECT COUNT(\*) FROM tkandmaa WHERE car\_make=?', ('Audi',))

audi\_count = cursor.fetchone()[0]

mercedes\_percentage = (mercedes\_count / total\_cars) \* 100

audi\_percentage = (audi\_count / total\_cars) \* 100

percentage\_text.set("Mercedes: {:.2f}%\nAudi: {:.2f}%".format(mercedes\_percentage, audi\_percentage))

cursor.close()

connection.close()

my\_w = ttk.Window()

my\_w.geometry("800x300") # width and height

colors = my\_w.style.colors

style = Style(theme='darkly')

l1 = [

{"text": "id", "stretch": False},

{"text":"first\_name","stretch":True},

{"text":"last\_name","stretch":True},

{"text":"email","stretch":True},

{"text":"car\_make","stretch":True},

{"text":"car\_model","stretch":True},

{"text":"car\_year","stretch":True},

{"text":"car\_price","stretch":True}

] # Columns with Names and style

#database query

connection = sqlite3.connect('epood\_tkandmaa.db')

cursor = connection.cursor()

cursor.execute('SELECT \* FROM tkandmaa')

r\_set = cursor.fetchall()

# Näitame tulemused

#for row in rows:

#print(rows)

# Data rows as list

#r\_set = [(1, "Alex", 'Four',90,'Female'), (2, "Ron", "Five",80,'Male'),

#(3, "Geek", 'Four',70,'Male'),(4,'King','Five',78,'Female'),

#(5,'Queen','Four',60,'Female'),(6,'Jack','Five',70,'Female')]

marks=[r[3] for r in r\_set] # List of all marks column

dv = ttk.tableview.Tableview(

master=my\_w,

paginated=True,

coldata=l1,

rowdata=r\_set,

searchable=True,

bootstyle=SUCCESS,

pagesize=10,

height=10,

stripecolor=(colors.light, None),

)

dv.grid(row=0, column=0, padx=10, pady=5)

dv.autofit\_columns() # Fit in current view

#dv.insert\_row("end", values=['-', "---", "All", sum(marks), "All"])

delete\_button = ttk.Button(my\_w, text="Kustuta rida", command=delete\_row)

delete\_button.grid(row=1, column=0, padx=10, pady=5)

dv.load\_table\_data() # Load all data rows

percentage\_text = tk.StringVar()

percentage\_label = tk.Label(my\_w, textvariable=percentage\_text, font=('Arial', 12), justify='left')

percentage\_label.grid(row=2, column=0, padx=10, pady=5)

show\_percentage() # Kuvame protsendid alguses

my\_w.mainloop()

cursor.close()

connection.close()