**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 HYPERLINK "mailto:karlos.kolk@gmail.com" @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 tkinter as tk

from tkinter import messagebox, Toplevel

from ttkbootstrap import Style

from ttkbootstrap.tableview import Tableview

import sqlite3

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

def delete\_row():

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

if selected\_items:

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

if confirmation:

for item in selected\_items:

row\_id = item[0]

dv.delete\_row(row\_id)

delete\_from\_database(row\_id)

show\_percentage()

dv.load\_table\_data()

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=?', ('Audi',))

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

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

percentage\_text.set("Audisi kokku on: {:.2f}%".format(audi\_percentage))

cursor.close()

connection.close()

def add\_data():

add\_data\_window = Toplevel(root)

add\_data\_window.title("Lisa Andmed")

tk.Label(add\_data\_window, text="First Name:").grid(row=0, column=0)

tk.Label(add\_data\_window, text="Last Name:").grid(row=1, column=0)

tk.Label(add\_data\_window, text="Email:").grid(row=2, column=0)

tk.Label(add\_data\_window, text="Car Make:").grid(row=3, column=0)

tk.Label(add\_data\_window, text="Car Model:").grid(row=4, column=0)

tk.Label(add\_data\_window, text="Car Year:").grid(row=5, column=0)

tk.Label(add\_data\_window, text="Car Price:").grid(row=6, column=0)

global entry\_first\_name, entry\_last\_name, entry\_email, entry\_car\_make, entry\_car\_model, entry\_car\_year, entry\_car\_price

entry\_first\_name = tk.Entry(add\_data\_window)

entry\_last\_name = tk.Entry(add\_data\_window)

entry\_email = tk.Entry(add\_data\_window)

entry\_car\_make = tk.Entry(add\_data\_window)

entry\_car\_model = tk.Entry(add\_data\_window)

entry\_car\_year = tk.Entry(add\_data\_window)

entry\_car\_price = tk.Entry(add\_data\_window)

entry\_first\_name.grid(row=0, column=1)

entry\_last\_name.grid(row=1, column=1)

entry\_email.grid(row=2, column=1)

entry\_car\_make.grid(row=3, column=1)

entry\_car\_model.grid(row=4, column=1)

entry\_car\_year.grid(row=5, column=1)

entry\_car\_price.grid(row=6, column=1)

tk.Button(add\_data\_window, text="Lisa Andmed", command=save\_data).grid(row=7, columnspan=2, pady=10)

def save\_data():

first\_name = entry\_first\_name.get()

last\_name = entry\_last\_name.get()

email = entry\_email.get()

car\_make = entry\_car\_make.get()

car\_model = entry\_car\_model.get()

car\_year = entry\_car\_year.get()

car\_price = entry\_car\_price.get()

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

cursor = connection.cursor()

cursor.execute('INSERT INTO tkandmaa (first\_name, last\_name, email, car\_make, car\_model, car\_year, car\_price) VALUES (?, ?, ?, ?, ?, ?, ?)',

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

connection.commit()

connection.close()

messagebox.showinfo("Andmete lisamine", "Andmed on edukalt lisatud andmebaasi.")

dv.load\_table\_data()

show\_percentage()

root = tk.Tk()

root.geometry("800x400")

root.title("Andmete Haldamine")

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}

]

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

cursor = connection.cursor()

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

r\_set = cursor.fetchall()

connection.close()

dv = Tableview(

master=root,

paginated=True,

coldata=l1,

rowdata=r\_set,

searchable=True,

bootstyle='flatly',

pagesize=10,

height=10

)

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

dv.autofit\_columns()

tk.Button(root, text="Lisa Andmed", command=add\_data).grid(row=1, column=0, padx=10, pady=5)

tk.Button(root, text="Kustuta Valitud Read", command=delete\_row).grid(row=2, column=0, padx=10, pady=5)

percentage\_text = tk.StringVar()

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

percentage\_label.grid(row=3, column=0, padx=10, pady=5)

show\_percentage()

connection.close()

root.mainloop()