Predloga kode za 2.domačo nalogo:

Za prvi del si zamislite neko atomarno transakcijo, recimo “dodajanje rezervacije novega jadralca z novim čolnom”:

cursor.execute("START TRANSACTION")

try:

 cursor.execute("SELECT jid FROM Jadralec WHERE ime = ' Tone'")

 existing\_jadralec\_id = cursor.fetchone()

 if not existing\_jadralec\_id:

 cursor.execute("select max(jid)+1 from Jadralec")

 existing\_jadralec\_id = cursor.fetchone()

 cursor.execute(f"insert into Jadralec values({existing\_jadralec\_id},'Tone',1,23);")

 else:

 existing\_jadralec\_id = existing\_jadralec\_id[0]

 cursor.execute("SELECT cid FROM Coln WHERE ime = 'Kajak'")

 existing\_coln\_id = cursor.fetchone()

 if not existing\_coln\_id:

 cursor.execute("select max(cid)+1 from Coln")

 existing\_coln\_id = cursor.fetchone()

 cursor.execute(f"insert into Coln values({existing\_coln\_id },'Kajak',6, 'Rumena');")

 else:

 existing\_coln\_id = existing\_coln\_id[0]

 cursor.execute(f"INSERT INTO Rezervacija VALUES ({existing\_patient\_id}, {existing\_coln\_id}, 2024-11-05)")

 cursor.execute("COMMIT")

except Exception:

 cursor.execute("ROLLBACK")

conn.commit()

Drugi del pa prikaže težave sočasnega dostopa, kjer uporabljate npr.

cursor.execute("SET GLOBAL TRANSACTION ISOLATION LEVEL READ UNCOMMITTED") ipd.

In lahko funkcijo sleep(n)

Več pa ne smemo izdati, saj bo potem prelahko. Namig: poglejte si transakcije A in B v Jupiter notebook iz vaj.

Še obljuba iz vaj:
pri datoteki socasen.py lahko recimo dodamo izpis procesov, ki so trenutno aktivni

def select(tableName):

 connection = connect(connString)

 try:

 cursor = connection.cursor()

 data = cursor.execute("SELECT \* FROM " + \

 tableName).fetchall()

 for item in data:

 print(item)

 except Exception as exc:

 print("EXCEPTION", exc)

#se procesi

 try:

 cursor = connection.cursor()

 data = cursor.execute("SHOW FULL PROCESSLIST").fetchall()

 for item in data:

 print(item)

 except Exception as exc:

 print("EXCEPTION", exc)

 connection.close()