# _Deadline_:  week 13 → monday 16:40

## Description:

Work on 3 tables of the form Ta(aid, a2, …), Tb(bid, b2, …), Tc(cid, aid, bid, …), where:

- aid, bid, cid, a2, b2 are integers;

- the primary keys are underlined;

- a2 is UNIQUE in Ta;

- aid and bid are foreign keys in Tc, referencing the primary keys in Ta and Tb, respectively.

## Task:

**a.** Write queries on Ta such that their execution plans contain the following operators:

- clustered index scan;

- clustered index seek;

- nonclustered index scan;

- nonclustered index seek;

- key lookup.

**b.** Write a query on table Tb with a WHERE clause of the form _WHERE b2 = value_ and analyze its execution plan. Create a nonclustered index that can speed up the query. Examine the execution plan again.

**c.** Create a view that joins at least 2 tables. Check whether existing indexes are helpful; if not, reassess existing indexes / examine the cardinality of the tables.