

Zaposleni({mbz, imez, prez, tipz, pltz, ruk}, {mbz})

$\text{dom}(\text{Zaposleni}, \text{ruk}) \subseteq \text{dom}(\text{Zaposleni}, \text{mbz})$

$\text{Zaposleni}[\text{ruk}] \subseteq \text{Zaposleni}[\text{mbz}]$

$\text{Null}(\text{Zaposleni}, \text{ruk}) = \text{True}$

$\text{Null}(\text{Zaposleni}, \text{imez}) = \text{False}$

$\text{Null}(\text{Zaposleni}, \text{tipz}) = \text{False}$

Masinovodja({mbz}, {mbz})

Kontrolor({mbz}, {mbz})

$\text{Masinovodja}[\text{mbz}] \subseteq \text{Zaposleni}[\text{mbz}]$

$\text{Kontrolor}[\text{mbz}] \subseteq \text{Zaposleni}[\text{mbz}]$

$\text{Masinovodja}[\text{mbz}] \cap \text{Kontrolor}[\text{mbz}] = \emptyset$

Radi\_u({mbk, idv}, {idv+mbk})

$\text{Radi\_u}[\text{mbk}] \subseteq \text{Kontrolor}[\text{mbz}]$

$\text{Radi\_u}[\text{idv}] \subseteq \text{Voz}[\text{idv}]$

$\text{dom}(\text{Radi\_u}, \text{mbk}) \subseteq \text{dom}(\text{Kontrolor}, \text{mbz})$

Voz({idv, ukbrmestav, nazv, maksbrzv}, {idv})

$\text{Null}(\text{Voz}, \text{nazv}) = \text{False}$

Klasa({idkl, nazkl}, {idkl})

Ima({idkl, idv, brmestakl}, {idv+idkl})

$\text{Ima}[\text{idv}] \subseteq \text{Voz}[\text{idv}]$

$\text{Ima}[\text{idkl}] \subseteq \text{Klasa}[\text{idkl}]$

$\text{Voz}[\text{idv}] \subseteq \text{Ima}[\text{idv}]$

Obucen({mbm, idv}, {mbm+idv})

$\text{Obucen}[\text{mbm}] \subseteq \text{Masinovodja}[\text{mbz}]$

$\text{Obucen}[\text{idv}] \subseteq \text{Voz}[\text{idv}]$

$\text{dom}(\text{Obucen}, \text{mbm}) \subseteq \text{dom}(\text{Masinovodja}, \text{mbz})$

$\text{Upravljanja\_vozom}(\{\text{redbrupr}, \text{datumpupr}, \text{datumzupr}, \text{mbm}, \text{idv}\}, \{\text{redbrupr}\})$

$\text{Upravljanja\_vozom}[\text{mbm}+\text{idv}] \subseteq \text{Obucen}[\text{mbm}+\text{idv}]$

$\text{Null}(\text{Upravljanja\_vozom}, \text{mbm}) = \text{False}$

$\text{Null}(\text{Upravljanja\_vozom}, \text{idv}) = \text{False}$

$\text{Kategorija\_putnika}(\{\text{nazktp}, \text{procenatp}\}, \{\text{nazkatp}\})$

$\text{Putnik}(\{\text{idp}, \text{imep}, \text{przp}, \text{polp}, \text{datumrp}, \text{emailp}, \text{nazkatp}\}, \{\text{idp}\})$

$\text{Putnik}[\text{nazkatp}] \subseteq \text{Kategorija\_putnik}[\text{nazkatp}]$

$\text{Null}(\text{Putnik}, \text{nazkatp}) = \text{False}$

$\text{Unique}(\text{Putnik}, \text{email}) = \text{True}$

$\text{Bankovni\_racun}(\{\text{brtkr}, \text{kolsredstava}, \text{valutar}, \text{vrstar}, \text{idp}\}, \{\text{brtkr}\})$

$\text{Bankovni\_racun}[\text{idp}] \subseteq \text{Putnik}[\text{idp}]$

$\text{Null}(\text{Bankovni\_racun}, \text{idp}) = \text{False}$

$\text{Null}(\text{Bankovni\_racun}, \text{valutar}) = \text{False}$

$\text{Null}(\text{Bankovni\_racun}, \text{vrstar}) = \text{False}$

$\text{Transakcija}(\{\text{idtr}, \text{datumtr}, \text{vremetr}, \text{iznostr}, \text{brtkr}, \text{idk}\}, \{\text{idtr}, \text{idk}\})$  (\*) 2 kljuca

$\text{Transakcija}[\text{brtkr}] \subseteq \text{Bankovni\_racun}[\text{brtkr}]$

$\text{Transakcija}[\text{idk}] \subseteq \text{Karta}[\text{idk}]$

$\text{Unique}(\text{Transakcija}, \text{idk}) = \text{True}$

$\text{Null}(\text{Transakcija}, \text{brtkr}) = \text{False}$

$\text{Null}(\text{Transakcija}, \text{idk}) = \text{False}$

$\text{Null}(\text{Transakcija}, \text{datumtr}) = \text{False}$

Null(Transakcija, vremetr) = False

Mesto({nazmst, opstinam, pkodm, gsirm, gduzm}, {nazmst})

Unique(Mesto, gsirm+gduzm) = True

Ruta({idrt, ukrasrt, brstrt}, {idrt})

Se\_pristize({idost, idpst, trput}, {idpst+idost})

$\text{dom}(\text{Se\_pristize}, \text{idost}) \subseteq \text{dom}(\text{Se\_pristize}, \text{idst})$

$\text{dom}(\text{Se\_pristize}, \text{idpst}) \subseteq \text{dom}(\text{Se\_pristize}, \text{idst})$

$\text{Se\_pristize}[\text{idpst}] \subseteq \text{Stanica}[\text{idst}]$

$\text{Se\_pristize}[\text{idost}] \subseteq \text{Stanica}[\text{idst}]$

Null(Se\_pristize, trput) = False

Se\_sastoji({idst, idrt}, {idst+idrt})

$\text{Se\_sastoji}[\text{idst}] \subseteq \text{Stanica}[\text{idst}]$

$\text{Se\_sastoji}[\text{idrt}] \subseteq \text{Ruta}[\text{idrt}]$

$\text{Ruta}[\text{idrt}] \subseteq \text{Se\_sastoji}[\text{idrt}]$

Poseduje({idprv, idrt}, {idprv+idrt})

$\text{Poseduje}[\text{idrt}] \subseteq \text{Ruta}[\text{idrt}]$

$\text{Poseduje}[\text{idprv}] \subseteq \text{Prevoz}[\text{idprv}]$

$\text{Prevoz}[\text{idprv}] \subseteq \text{Poseduje}[\text{idprv}]$

Stanica({idst, nazst, brkolos, gsirs, gduzs, nazmst}, {idst})

$\text{Stanica}[\text{nazmst}] \subseteq \text{Mesto}[\text{nazmst}]$

Null(Stanica, nazmst) = False

Unique(Stanica, gsirs+gduzs) = True

Prevoz({idprv, vremepprv, vremedprv, idv, idpst, iddst}, {idprv})

$\text{dom}(\text{Prevoz}, \text{idpst}) \subseteq \text{dom}(\text{Stanica}, \text{idst})$

$\text{dom}(\text{Prevoz}, \text{iddst}) \subseteq \text{dom}(\text{Stanica}, \text{idst})$

$\text{Prevoz}[\text{idpst}] \subseteq \text{Stanica}[\text{idst}]$

$\text{Prevoz}[\text{iddst}] \subseteq \text{Stanica}[\text{idst}]$

$\text{Prevoz}[\text{idv}] \subseteq \text{Voz}[\text{idv}]$

$\text{Null}(\text{Prevoz}, \text{vremepprv}) = \text{False}$

$\text{Null}(\text{Prevoz}, \text{vremedprv}) = \text{False}$

$\text{Null}(\text{Prevoz}, \text{idv}) = \text{False}$

$\text{Null}(\text{Prevoz}, \text{idpst}) = \text{False}$

$\text{Null}(\text{Prevoz}, \text{iddst}) = \text{False}$

Karta({idk, cenakt, datumpkt, datumdk, vremepkt, vremedkt, otkazanakt, idprv, idpr, idpst, iddst, idv, mbk, idkl}, {idk})

$\text{Karta}[\text{idpr}] \subseteq \text{Putnik}[\text{idp}]$

$\text{dom}(\text{Karta}, \text{idpr}) \subseteq \text{dom}(\text{Putnik}, \text{idp})$

$\text{Null}(\text{Karta}, \text{idpr}) = \text{False}$

$\text{Karta}[\text{idprv}] \subseteq \text{Prevoz}[\text{idprv}]$

$\text{Null}(\text{Karta}, \text{idprv}) = \text{False}$

$\text{Karta}[\text{idpst}] \subseteq \text{Stanica}[\text{idst}]$

$\text{dom}(\text{Karta}, \text{idpst}) \subseteq \text{dom}(\text{Stanica}, \text{idst})$

$\text{Null}(\text{Karta}, \text{idpst}) = \text{False}$

$\text{Karta}[\text{iddst}] \subseteq \text{Stanica}[\text{idst}]$

$\text{dom}(\text{Karta}, \text{iddst}) \subseteq \text{dom}(\text{Stanica}, \text{idst})$

$\text{Null}(\text{Karta}, \text{iddst}) = \text{False}$

$\text{Karta}[\text{idv}+\text{mbk}] \subseteq \text{Radi\_u}[\text{idv}+\text{mbk}]$

$\text{Null}(\text{Karta}, \text{mbk}) = \text{True}$

$\text{Karta}[\text{idv}+\text{idkl}] \subseteq \text{Ima}[\text{idv}+\text{idkl}]$

$\text{Null}(\text{Karta}, \text{idkl}) = \text{False}$

$\text{Null}(\text{Karta}, \text{idv}) = \text{True}$