

# Relaciona šema baze podataka za Informacioni sistem naučno-istraživačkog centra

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Hotelska\_soba({br\_sob, kap, ter, ren}, {br\_sob})

$\text{Null}(\text{Hotelska\_soba}, \text{kap}) = \perp$

$\text{Null}(\text{Hotelska\_soba}, \text{ter}) = \perp$

$\text{Null}(\text{Hotelska\_soba}, \text{ren}) = \top$

Knjiga({id\_k, naz, god, izd, osoba\_id}, {id\_k})

$\text{Knjiga}[\text{osoba\_id}] \subseteq \text{Osoba}[\text{id}]$

$\text{Null}(\text{Knjiga}, \text{osoba\_id}) = \top$

$\text{Null}(\text{Knjiga}, \text{naz}) = \perp$

$\text{Null}(\text{Knjiga}, \text{god}) = \perp$

$\text{Null}(\text{Knjiga}, \text{izd}) = \perp$

$\text{Null}(\text{Knjiga}, \text{aut}) = \perp$

Naucni\_program({id\_prog, naz, id\_od}, {id\_prog})

$\text{Naucni\_program}[\text{id\_od}] \subseteq \text{Odeljenje}[\text{id\_od}]$

$\text{Null}(\text{Naucni\_program}, \text{id\_od}) = \top$

$\text{Null}(\text{Naucni\_program}, \text{naz}) = \perp$

Odeljenje({id\_od, naz}, {id\_od})

$\text{Null}(\text{Odeljenje}, \text{naz}) = \perp$

Oprema({id\_op, naz, max\_kol, osoba\_id, id\_sem, id\_prog}, {id\_op})

$\text{Oprema}[\text{osoba\_id}] \subseteq \text{Osoba}[\text{id}]$

$\text{Oprema}[\text{id\_sem}] \subseteq \text{Seminar}[\text{id\_sem}]$

$\text{Oprema}[\text{id\_prog}] \subseteq \text{Seminar}[\text{id\_prog}]$

$\text{Null}(\text{Naucni\_program}, \text{osoba\_id}) = \top$

$\text{Null}(\text{Naucni\_program}, \text{naz}) = \perp$

$\text{Null}(\text{Naucni\_program}, \text{max\_kol}) = \top$

Osoba({id, jmbg, ime, prz, br\_tel, email, tip, br\_sob, uloga, sef\_id}, {id})

Osoba[br\_sob]  $\subseteq$  Hotelska\_soba[br\_sob]

Osoba[sef\_id]  $\subseteq$  Osoba[id]

Unique(Osoba, jmbg)

Null(Osoba, br\_sob) =  $\perp$

Null(Osoba, sef\_id) =  $\top$

Null(Osoba, jmbg) =  $\perp$

Null(Osoba, ime) =  $\perp$

Null(Osoba, prz) =  $\perp$

Null(Osoba, br\_tel) =  $\perp$

Null(Osoba, email) =  $\perp$

Null(Osoba, tip) =  $\perp$

Pozvan\_na({id\_sem, id\_prog, osoba\_id}, {id\_sem + id\_prog + osoba\_id})

Pozvan\_na[id\_sem, id\_prog]  $\subseteq$  Seminar[id\_sem, id\_prog]

Pozvan\_na[osoba\_id]  $\subseteq$  Osoba[id]

Radna\_prostorija({id\_rp, naz, lok, tip, id\_prog}, {id\_rp})

Radna\_prostorija[id\_prog]  $\subseteq$  Naucni\_program[id\_prog]

Null(Radna\_prostorija, id\_prog) =  $\top$

Null(Radna\_prostorija, naz) =  $\perp$

Null(Radna\_prostorija, lok) =  $\perp$

Null(Radna\_prostorija, tip) =  $\perp$

Rukovodi({osoba\_id, id\_prog, upr}, {osoba\_id + id\_prog})

Rukovodi[osoba\_id]  $\subseteq$  Osoba[id]

Rukovodi[id\_prog]  $\subseteq$  Naucni\_program[id\_prog]

Null(Rukovodi, upr) =  $\perp$

Predef(Rukovodi, upr) = false

$\text{Seminar}(\{\text{id\_sem}, \text{dat\_start}, \text{dat\_kraj}, \text{tip}, \text{id\_prog}\}, \{\text{id\_sem} + \text{id\_prog}\})$

$\text{Seminar}[\text{id\_prog}] \subseteq \text{Naucni\_program}[\text{id\_prog}]$

$\text{Null}(\text{Seminar}, \text{dat\_start}) = \perp$

$\text{Null}(\text{Seminar}, \text{dat\_kraj}) = \perp$

$\text{Null}(\text{Seminar}, \text{tip}) = \top$