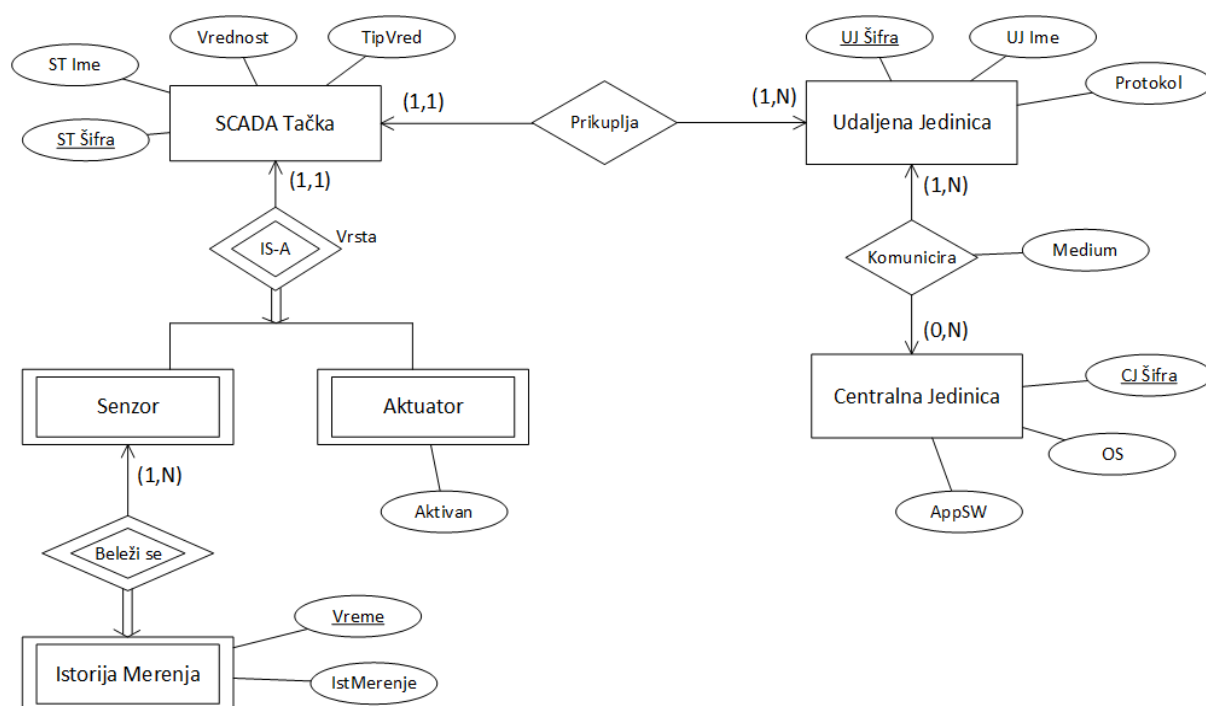


$\subseteq$   $\cup$   $\cap$   $\emptyset$   $\perp$



SCADA\_Tacka ({ST\_Sifra, ST\_Ime, Vrednost, TipVred, UJ\_Sifra}, {ST\_Sifra})

Udaljena\_jedinica ({UJ\_Sifra, UJ\_Ime, Protokol}, {UJ\_Sifra})

Ref. - SCADA\_Tacka[UJ\_Sifra]  $\subseteq$  Udaljena\_jedinica [UJ\_Sifra]

Inv. Ref. - Udaljena\_jedinica [UJ\_Sifra]  $\subseteq$  SCADA\_Tacka[UJ\_Sifra]

Null(SCADA\_Tacka, UJ\_Sifra) =  $\perp$

Centralna\_jedinica ({CJ\_sifra, OS, AppSW}, {CJ\_sifra})

Komunicira ({Medium, UJ\_sifra, CJ\_sifra}, {UJ\_sifra + CJ\_sifra})

Ref. Komunicira [UJ\_sifra]  $\subseteq$  Udaljena\_jedinica [UJ\_sifra]

Ref. Komunicira [CJ\_sifra]  $\subseteq$  Centralna\_jednica [CJ\_sifra]

Inv. Udaljena\_jedinica[UJ\_sifra]  $\subseteq$  Komunicira [UJ\_sifra]

Senzor ({ST\_Sifra}, {ST\_Sifra})

Aktuator ({Aktivan, ST\_Sifra}, {ST\_Sifra})

Ref. Senzor[ST\_Sifra]  $\subseteq$  SCADA\_Tacka[ST\_Sifra]

Ref. Aktuator[ST\_Sifra]  $\subseteq$  SCADA\_Tacka[ST\_Sifra]

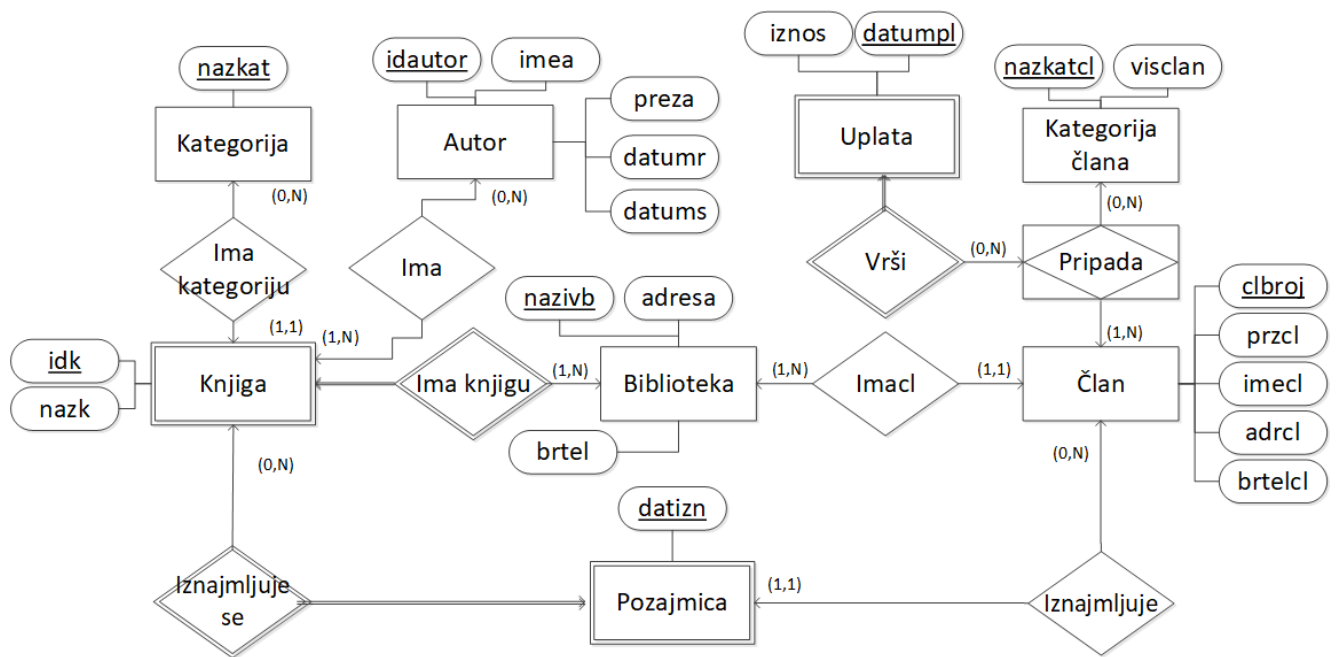
Medjurelaciono ogr. SCADA\_TACKA[ST\_Sifra]  $\subseteq$  Senzor [ST\_Sifra]  $\cup$  Aktuator[ST\_Sifra]

Istorija\_merenja (Vreme, IstMerenje, ST\_Sifra), {Vreme+ST\_Sifra})

Istorija\_merenja[ST\_Sifra]  $\subseteq$  Senzor[ST\_sifra]

Senzor[ST\_sifra]  $\subseteq$  Istorija\_merenja [ST\_sifra]

$\subseteq$     $\cup$     $\cap$     $\emptyset$     $\perp$



Pozajmica ( {datizn, clbroj, idk + nazivb }, {datizn + idk + nazivb } )

Pozajmica[clbroj]  $\subseteq$  Clan [clbroj]

Null(Pozajmica, clbroj) =  $\perp$

Pozajmica[idk + nazivb]  $\subseteq$  Knjiga [idk + nazivb]

Pripada ( {nazkatcl, clbroj}, {nazkatcl+clbroj} )

Pripada [nazkatcl]  $\subseteq$  Kategorija\_clan[nazkatcl]

Pripada [clbroj]  $\subseteq$  Clan [clbroj]

Clan[clbroj]  $\subseteq$  Pripada[clbroj]

Uplata ( {iznos, datumpl, nazkatcl, clbroj}, {datumpl + nazkatcl + clbroj} )

Uplata [nazkatcl + clbroj]  $\subseteq$  Pripada [nazkatcl + clbroj]

Knjiga ( {idk, nazk, nazkat, nazivb}, {idk + nazivb} )

Knjiga[nazkat]  $\subseteq$  Kategorija [nazkat]

Null(Knjiga, nazkat) =  $\perp$

Knjiga[nazivb]  $\subseteq$  Biblioteka [nazivb]

Biblioteka[nazivb]  $\subseteq$  Knjiga[nazivb]

Kategorija ( { nazkat}, {nazkat} )

Autor ( { idautor, imea, preza, datumr, datums}, {idautor} )

Ima ( { idautor, idk, nazivb}, {idautor+idk+ nazivb} )

Ima[idautor]  $\subseteq$  Autor[idautor]

Ima[idk + nazivb]  $\subseteq$  Knjiga[idk + nazivb]

Knjiga [idk + nazivb]  $\subseteq$  Ima[idk + nazivb]

Biblioteka ( {nazivb, adres, brtel}, {nazivb} )

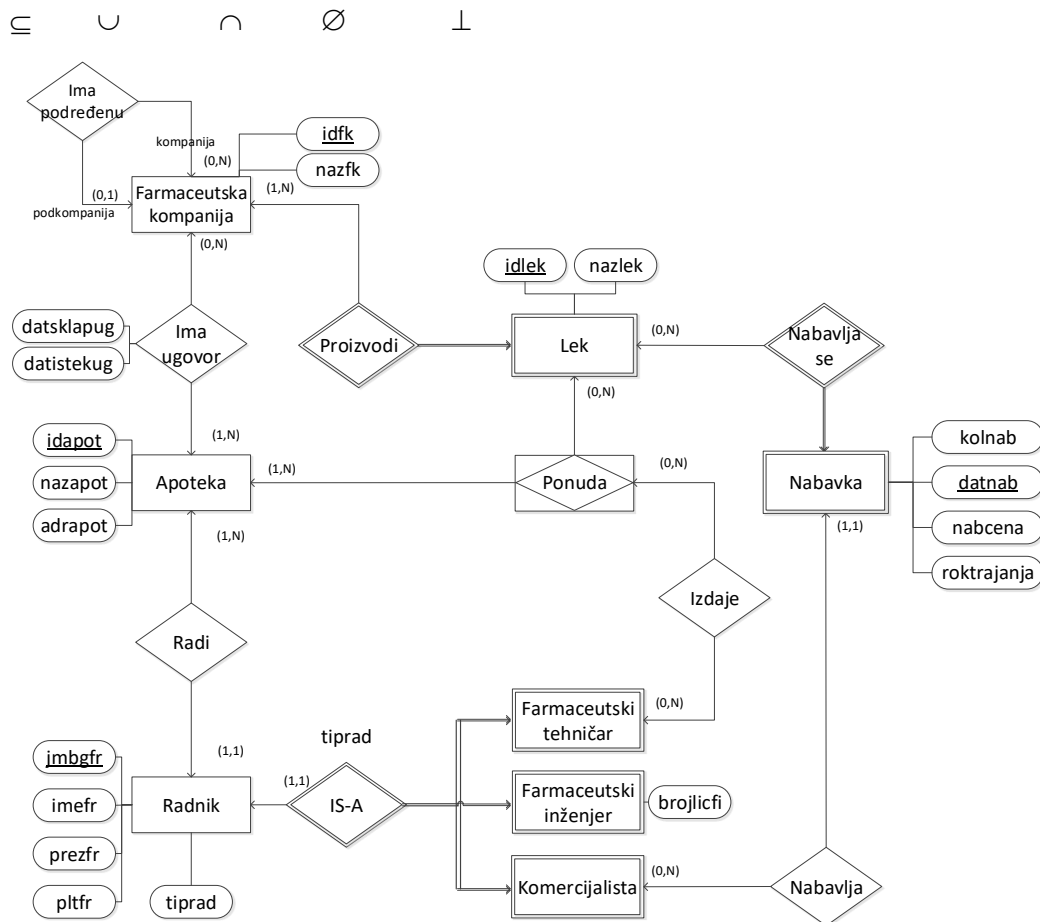
Kategorija\_clan( {nazkatcl, visclan}, {nazkatcl} )

Clan({clbroj, przcl, imecl, adrcl, brtelcl, nazivb}, {clbroj})

Clan[nazivb]  $\subseteq$  Biblioteka [nazivb]

Biblioteka[nazivb]  $\subseteq$  Clan [nazivb]

Null(Clan, nazivb) =  $\perp$



Ponuda ( {idapot, idlek, idfk}, {idapot+idlek+idfk})

Ponuda [idapot]  $\subseteq$  Apoteka [idapot]

Ponuda [idlek + idfk]  $\subseteq$  Lek [idlek + idfk]

Apoteka [idapot]  $\subseteq$  Ponuda [idapot]

Izdaje ({jmbgfr, idapot, idlek, idfk}, {jmbgfr + idapot + idlek + idfk})

Izdaje [jmbgfr]  $\subseteq$  Farmaceutski\_tehnicar [jmbgfr]

Izdaje [idapot + idlek + idfk]  $\subseteq$  Ponuda [idapot+idlek+idfk]

Nabavka({kolnab, datnab, nabcena, roktrajanja, jmbgfr, idlek, idfk}, {datnab + idlek + idfk})

Nabavka [jmbgfr]  $\subseteq$  Komerrijalista [jmbgfr]

Null (Nabavka, jmbgfr) =  $\perp$

Nabavka[idlek+idfk]  $\subseteq$  Lek [idlek + idfk]

Null(Nabavka, idlek + idfk) =  $\perp$

~~Nabavka [idlek]  $\subseteq$  Lek [idlek]~~

~~Nabavka [idfk]  $\subseteq$  Lek [idfk]~~

~~Null(Nabavka, idlek) =  $\perp$~~

~~Null(Nabavka, idfk) =  $\perp$~~

Farmaceutski\_tehnicar ({jmbgfr}, {jmbgfr})

Farmaceutski\_inzenjer ({jmbgfr, brojicfi}, {jmbgfr})

Komerrijalista ({jmbgfr}, {jmbgfr})

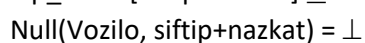
$\text{Farmaceutski\_tehnica} [\text{jmbgfr}] \subseteq \text{Radnik} [\text{jmbgfr}]$   
 $\text{Farmaceutski\_inzenjer} [\text{jmbgfr}] \subseteq \text{Radnik} [\text{jmbgfr}]$   
 $\text{Komerijalista} [\text{jmbgfr}] \subseteq \text{Radnik} [\text{jmbgfr}]$   
 $\text{Radnik} [\text{jmbgfr}] \subseteq \text{Farmaceutski\_tehnica} [\text{jmbgfr}] \cup \text{Farmaceutski\_inzenjer} [\text{jmbgfr}] \cup \text{Komerijalista} [\text{jmbgfr}]$

$\text{Radnik} (\{\text{jmbgfr}, \text{imefr}, \text{prezfr}, \text{pltf}, \text{tiprad}, \text{idapot}\}, \{\text{jmbgfr}\})$   
 $\text{Radnik} [\text{idapot}] \subseteq \text{Apoteka} [\text{idapot}]$   
 $\text{Apoteka} [\text{idapot}] \subseteq \text{Radnik} [\text{idapot}]$   
 $\text{Null}(\text{Radnik}, \text{idapot}) = \perp$

$\text{Apoteka} (\{\text{idapot}, \text{nazapot}, \text{adrapot}\}, \{\text{idadpot}\})$   
 $\text{Ima\_ugovor} (\{\text{datasklapug}, \text{datistekug}, \text{idf}, \text{idapot}\}, \{\text{idf} + \text{idapot}\})$   
 $\text{Ima\_ugovor} [\text{idf}] \subseteq \text{Farmaceutska\_kompanija} [\text{idf}]$   
 $\text{Ima\_ugovor} [\text{idapot}] \subseteq \text{Apoteka} [\text{idapot}]$   
 $\text{Apoteka} [\text{idadpot}] \subseteq \text{Ima\_ugovor} [\text{idapot}]$

$\text{Farmaceutska\_kompanija} (\{\text{idfk}, \text{nazfk}, \text{idnadk}\}, \{\text{idfk}\})$   
 $\text{dom}(\text{idnadk}) \subseteq \text{dom}(\text{idf})$   
 $\text{Farmaceutska\_kompanija} [\text{idnadk}] \subseteq \text{Farmaceutska\_kompanija} [\text{idf}]$   
 $\text{Null}(\text{Farmaceutska\_kompanija}, \text{idnadk}) = \text{T}$

$\text{Lek} (\{\text{idlek}, \text{nazlek}, \text{idfk}\}, \{\text{idlek} + \text{idfk}\})$   
 $\text{Lek} [\text{idfk}] \subseteq \text{Farmaceutska\_kompanija} [\text{idfk}]$   
 $\text{Farmaceutska\_kompanija} [\text{idfk}] \subseteq \text{Lek} [\text{idfk}]$   
 $\text{Null}(\text{Lek}, \text{idfk}) = \perp$



$\text{Ucenik}(\{\text{jmbgu}, \text{imeu}, \text{prezu}, \text{jmbgz}\}, \{\text{jmbgu}\})$

$\text{Ucenik}[\text{jmbgz}] \subseteq \text{Administrativac}[\text{jmbgz}]$

$\text{Null}(\text{Ucenik}, \text{jmbgz}) = \perp$

$\text{Instruktor}(\{\text{brvozdoz}, \text{jmbgz}\}, \{\text{jmbgz}\})$

$\text{Administrativac}(\{\text{jmbgz}\}, \{\text{jmbgz}\})$

$\text{Administrativac}[\text{jmbgz}] \subseteq \text{Zaposleni}[\text{jmbgz}]$

$\text{Instruktor}[\text{jmbgz}] \subseteq \text{Zaposleni}[\text{jmbgz}]$

$\text{Zaposleni}[\text{jmbgz}] \subseteq \text{Administrativac}[\text{jmbgz}] \cup \text{Instruktor}[\text{jmbgz}]$

$\text{Zaposleni}(\{\text{jmbgz}, \text{imez}, \text{prezz}, \text{katzap}, \text{ruk}\}, \{\text{jmbgz}\})$

$\text{dom}(\text{ruk}) \subseteq \text{dom}(\text{jmbgz})$

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

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