

24. 11.

## KOLOKVIJUM

- 1) ER model
- 2) Relacioni
- 3) DDL

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## RELACIJA

↓  
SKUP  
ATRIBUTA

PK  
FK

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2.)

zvanje (naziv)

PK: {naziv}

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PROFESOR(jmbg, ime, godine,  
specijalnost,  
naziv-z)

PK: {jmbg}

FK: {naziv-z} → zvanje (naziv)

naziv-z NOT NULL

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PROJEKAT (BROJ, SPONZOR, DAT-POC,

DAT-KRAJ, BUDŽET, jmbg-p)

PK: {BROJ}

FK: {jmbg-p} → PROFESOR(jmbg)

jmbg-p NOT NULL

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SPECIJALNI(BROJ-P, jmbg-p)

PK: {BROJ-P}

FK: {BROJ-P} → PROJEKAT(BROJ)

FK: {jmbg-p} → PROFESOR(jmbg)

jmbg-p NOT NULL

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$\text{PROF-PROJ}(\underline{\text{JMBCG-P}}, \underline{\text{BROJ-P}})$   
 $\text{PK: } \{ \underline{\text{JMBCG-P}}, \underline{\text{BROJ-P}} \}$   
 $\text{FK: } \{ \underline{\text{JMBCG-P}} \} \rightarrow \text{PROFESOR}(\text{JMBCG})$   
 $\text{FK: } \{ \underline{\text{BROJ-P}} \} \rightarrow \text{PROJEKT}(\text{BROJ})$

$\text{ZGRADA}(\underline{\text{OZNAKA}}, \underline{\text{ADRESA}})$   
 $\text{PK: } \{ \underline{\text{OZNAKA}} \}$

$\text{FAKULTET}(\underline{\text{OZNAKA}}, \underline{\text{NAZIV}}, \text{BROJ-K}, \text{JMBCG-P})$   
 $\text{PK: } \{ \underline{\text{OZNAKA}}, \underline{\text{NAZIV}} \}$   
 $\text{FK: } \{ \underline{\text{OZNAKA}} \} \rightarrow \text{ZGRADA}(\text{OZNAKA})$   
 $\text{FK: } \{ \underline{\text{JMBCG-P}} \} \rightarrow \text{PROFESOR}(\text{JMBCG})$   
 $\text{JMBCG-P NOT NULL}$

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$\text{FAKULTET-PROF}(\underline{\text{JMBCG-P}}, \underline{\text{OZNAKA}}, \underline{\text{NAZIV}}, \text{FONDS})$   
 $\text{PK: } \{ \underline{\text{JMBCG-P}}, \underline{\text{OZNAKA}}, \underline{\text{NAZIV}} \}$   
 $\text{FK: } \{ \underline{\text{JMBCG-P}} \} \rightarrow \text{PROFESOR}(\text{JMBCG})$   
 $\text{FK: } \{ \underline{\text{OZNAKA}}, \underline{\text{NAZIV}} \} \rightarrow \text{FAKULTET}(\text{OZNAKA}, \text{NAZIV})$

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USMJERENJE (NAZIV)

PK: {NAZIV}

POSTDIPLOMAC (JMBG, IME, STAROST,  
NAZIV-U, JMBG-PS, OZNAKA, NAZIV)

PK: {JMBG}

FK: {NAZIV-U} → USMJERENJE (NAZIV)

FK: {JMBG-PS} → POSTDIPLOMAC (JMBG)

FK: {OZNAKA, NAZIV} → FAKULTET (OZNAKA, NAZIV)

: NOT NULL

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POST-PROJ (JMBG-PS, BROJ-P, JMBG-P)

PK: {JMBG-PS, BROJ-P}

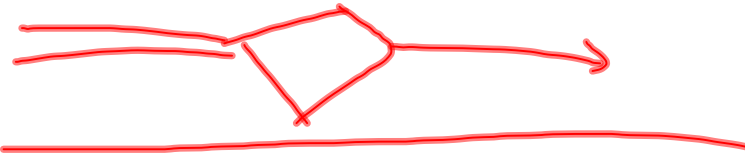
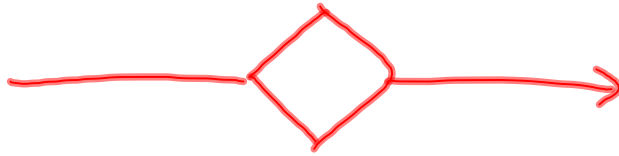
FK: {JMBG-PS} → POSTDIPLOMAC (JMBG)

FK: {BROJ-P} → PROJEKAT (BROJ)

FK: {JMBG-P} → PROFESOR (JMBG)

JMBG-P NOT NULL

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```
CREATE TABLE ZVANJE(  
    NAZIV VARCHAR(50)  
    PRIMARY KEY NAZIV  
);
```

```
CREATE TABLE PROFESOR(  
    JMBG VARCHAR(13),  
    IME VARCHAR(50),  
    GODINA INTEGER,  
    SPECIJALNOST VARCHAR(50),  
    NAZIV-2 VARCHAR(50) NOT NULL
```

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```
PRIMARY KEY (JMBG),  
FOREIGN KEY NAZIV_2  
REFERENCES ZVANJE (NAZIV)  
);
```

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```
CREATE TABLE 'PROJEKT'  
  BROJ INTEGER,  
  SPONZOR VARCHAR(100),  
  DAT_POC DATE,  
  DAT_KRAJ DATE,  
  BUDJET INTEGER,  
  JMBG-P VARCHAR(13) NOT NULL,  
  PRIMARY KEY (BROJ),  
  FOREIGN KEY (JMBG-P) REFERENCES  
  PROFESOR (JMBG)  
);
```

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```
CREATE TABLE SPECIJALNI (  
    BROJ-P INTEGER,  
    JMBG-P VARCHAR(13), NOT NULL,  
    PRIMARY KEY (BROJ-P),  
    FOREIGN KEY (BROJ-P) REFERENCES  
        PROJEKAT(BROJ)  
    FOREIGN KEY (JMBG-P) REFERENCES  
        PROFESOR(JMBG)  
);
```

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