

Veri Organizasyonu Ödev 4

- a- $\pi_{\text{baslik, yil}} (\text{Kitap})$
- b- $\pi_{\text{ogrID, ogrAdi, bolum, yas}} (\sigma_{\text{bolum} = 'ISS'} (\text{Ogrenci}))$
- c- $\pi_{\text{ogrAdi}} (\text{Ogrenci} \bowtie \text{Odunc} \bowtie \text{Kitap})$
- d- $\pi_{\text{kitapID}} (\sigma_{\text{yayinci} = 'SAÜ' \wedge \text{yil} < 1990} (\text{Kitap}))$
- e- $\pi_{\text{yAdi}} (\sigma_{\text{adresi} = 'Saraysa'} (\text{Yazar}))$
- f- $\pi_{\text{ogrAdi}} (\sigma_{\text{yas} > 30} (\text{Ogrenci})) - \pi_{\text{ogrAdi}} (\sigma_{\text{bolum} = 'ISS'} (\text{Ogrenci}))$
- g- (dörtüncüde yok)
- h- $\pi_{\text{ogrID}} (\sigma_{\text{bolum} = 'ISS'} (\text{Ogrenci})) \cap \pi_{\text{ogrID}} (\text{Ogrenci} \bowtie \text{Odunc})$
- i- $\pi_{\text{baslik}} (\text{Kitap} \bowtie \sigma_{\text{yAdi} = 'Ali'} (\text{Yazilmis}))$
- j- $\pi_{\text{baslik}} (\text{Kitap} \bowtie \sigma_{\text{yAdi} = 'Ali'} (\text{Yazilmis})) - \pi_{\text{baslik}} (\text{Kitap} \bowtie \sigma_{\text{ganhler} = 'veitabani'} (\text{AciLama}))$
- k- $\pi_{\text{kitapID, baslik, yayinci, yil}} (\sigma_{\text{kitapID} \neq 'NULL'} (\text{Kitap}))$
- l- $\pi_{\text{ogrAdi, baslik}} (\text{Ogrenci} \bowtie \text{Odunc} \bowtie \text{Kitap})$
- m- $\pi_{\text{baslik}} (\text{Kitap} \bowtie \sigma_{\text{yAdi} = 'Yasin'} (\text{Yazilmis}))$
- n- $\pi_{\text{yAdi}} (\text{Yazar} \bowtie \text{Yazilmis} \bowtie \text{Odunc} \bowtie \sigma_{\text{ogrAdi} = 'veli'} (\text{Ogrenci}))$
- o- $\pi_{\text{kitapID}} (\text{Kitap} \bowtie \sigma_{\text{ganhler} = 'veitabani'} (\text{AciLama})) \cap \pi_{\text{kitapID}} (\text{Kitap} \bowtie \sigma_{\text{ganhler} = 'programlama'} (\text{AciLama}))$

Yakup Yigit Tex
002024011