

- a) $\pi_{\text{Başlık}, \text{Yıl}} (\text{Kitap})$
- b) $\pi_{\text{OgrAdi}, \text{OgrAdi}, \text{Bolum}, \text{Yas}} (\sigma_{\text{Bolum}="115"} (\text{OGRENCI}))$
- c) $\text{OGRENCI} \bowtie \text{ODUNC} \bowtie \text{KITAP}$
- d) $\sigma_{\text{Yayinci}="SAÜ"} \wedge \text{Yıl} < 1990 (\text{Kitap})$
- e) $\pi_{\text{YAdi}} (\sigma_{\text{Adres}="Salıncı"} (\text{YAZAR}))$
- f) $\pi_{\text{OgrAdi}} (\sigma_{\text{Yas} > 30 \wedge \text{Bolum}="115"} (\text{OGRENCI}))$
- g) $\rho (\text{YAZAR} (\text{Adi}, \text{Adres}), \text{YAZAR})$
- h) $\pi_{\text{OgrAdi}} (\sigma_{\text{Bolum}="115"} (\text{OGRENCI}) \wedge \text{Kitap.KitapID} = \text{odunc.KitapID} \bowtie \text{ODUNC})$
- i) $\pi_{\text{Başlık}} = (\sigma_{\text{YAdi}="Ali"} (\text{YAZAR}) \times (\sigma_{\text{Yazar}="Ali"} (\text{Kitap})))$
- j) $\pi_{\text{Başlık}} = (\sigma_{\text{YAdi}="Ali"} \wedge \text{Anaklar} = \text{NULL} (\text{KITAP} \bowtie \text{YAZILMIŞ} \bowtie \text{AÇIKLAMA}))$
- k) $\pi_{\text{KitapID}, \text{Başlık}, \text{Yayinci}, \text{Yıl}} (\sigma_{\text{KitapID} \neq \text{NULL}} (\text{KITAP}))$
- l) $\pi_{\text{OgrAdi}} (\text{OGRENCI} \bowtie \text{ODUNC} \bowtie \text{KITAP})$
- m) $\pi_{\text{Başlık}} (\sigma_{\text{YAdi}="Yasin"} (\text{YAZAR}) \bowtie \text{KITAP})$
- n) $\pi_{\text{YAdi}} (\sigma_{\text{OgrAdi}="Ueli"} (\text{OGRENCI}) \bowtie \text{KITAP} \bowtie \text{ODUNC})$
- o) $\pi_{\text{Başlık}} (\sigma_{\text{Anaklar}="Yeni Tasarı"} (\text{AÇIKLAMA}) \wedge \text{Giristat} = \text{"Programlama"} \bowtie \text{KITAP})$

Levent ERGÖREN

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