

a - $\pi_{\text{baslik, yil}}$ (KİTAP)

b - $\sigma_{\text{bolum} = "115"}$ (OGRENCİ)

c - OGRENCİ \bowtie KİTAP

d - $\sigma_{(\text{Yayinci} = 'SAU' \wedge \text{yil} < 1990)}$ (KİTAP)

e - $\sigma_{\text{adres} = "Sakarya"}$ (YAZAR)

f - $\pi_{\text{ogrAdi}} (\sigma_{\text{yas} > 30 \wedge -115}$ (OGRENCİ))

g - $\rho_{\text{Adi}} / \gamma_{\text{Adi}}$ (OGRENCİ)

h - $\pi_{\text{od}} (\sigma_{115 \wedge \text{Odunc}}$ (OGRENCİ \bowtie ODUNC)

i - $\pi_{\text{baslik}} (\sigma_{\text{yazar} = "Ali"}$ (KİTAP) \times YAZAR)

j - $\pi_{\text{baslik}} (\sigma_{\text{yazar} = "Ali" \wedge \text{Anahtar} \neq "veritabanı"}$ (KİTAP))

k - $\pi_{\text{KitapID, Anahtar}} (\sigma_{\text{Anahtar} \neq \text{null}}$ (KİTAP))

l - OGRENCİ \bowtie ODUNC

m - $\pi_{\text{baslik}} (\sigma_{\text{yAdi} = "YASIN"}$ (KİTAP \bowtie YAZAR))

n - $\pi_{\text{yAdi}} (\text{OGRENCİ} \bowtie_{\text{ogrAdi} = "Veli"} \text{ODUNC} \bowtie \text{KİTAP} \bowtie \text{YAZAR})$

o - $\pi_{\text{KitapID}} (\sigma_{\text{Anahtar} = 'veritabanı'}$ (KİTAP) \bowtie $\sigma_{\text{Anahtar} = 'programlama'}$ (KİTAP))