

A) $\pi(\text{Başlık}, \text{yıl})(\text{kitap})$

Ömer konukmen
02220224010

B) $\pi_{\text{ogradi}, \text{ogrID}, \text{Dolumiyas}}(\sigma_{\text{Bolum} = '155'}(\text{ogrenci}))$

C) $\text{ogrenci} \bowtie \text{kitap}$

D) $\sigma_{\text{yayinci} = 'SAÜ' \wedge \text{yıl} < 1990}(\text{kitap})$

E) $\pi_{\text{yadi}} = (\sigma_{\text{adres} = 'sakarya'}(\text{yazar}))$

F) $\pi_{\text{ogradi}}(\sigma_{\text{yas} > 30}(\text{ogrenci}) \wedge \text{Bolum} \neq '115'(\text{ogrenci}))$

G) $\sigma_{\text{yazar}(\text{adi}, \text{adres})}(\text{yazar})$

H) $\pi_{\text{ogradi}, \text{yazar}, \text{Bolum}, \text{ogrID}}(\sigma_{\text{Bolum} = '115'}(\text{ogrenci}) \bowtie \text{odunc})$

I) $\pi_{\text{Başlık}}(\text{kitap} \bowtie \sigma_{\text{yadi} = 'Ali'}(\text{yazarlmış}))$

J) $\pi_{\text{Başlık}}(\sigma_{\text{kitapID}} = 'null'(\sigma_{\text{yadi} = 'Ali'}(\text{yazar}) \times \sigma_{\text{yazar} = 'Ali'}(\text{kitap})))$

K) $\text{kitap} \bowtie \text{Acıkama}$

L) $\pi_{\text{Bolum}, \text{yazar}, \text{ogrID}}(\sigma_{\text{ogradi}}(\text{ogrenci} \bowtie \text{kitap} \bowtie \text{odunc}))$

M) $\pi_{\text{Başlık}}(\text{kitap} \bowtie \sigma_{\text{yadi} = 'Yasın'}(\text{yazarlmış}))$

N) $\text{yazar} \bowtie (\pi_{\text{yadi}}(\text{yazar} \bowtie \text{odunc} \bowtie \text{yazarlmış} \bowtie \sigma_{\text{ogradi} = 'veli'}(\text{ogrenci})))$

O) $\text{kitap} \bowtie (\pi_{\text{kitapID}}(\text{kitap} \bowtie \sigma_{\text{arahtar} = 'veritabanı'}(\text{acıkama})))$

$(\pi_{\text{kitapID}}(\text{kitap} \bowtie \sigma_{\text{arahtar} = 'Programlama'}(\text{acıkama})))$