

(1)

$$\pi_{SNO}(\sigma_{JNO='J1'}(SPJ))$$

(2)

$$\pi_{SNO}(\sigma_{JNO='J1'\wedge PNO='P1'}(SPJ))$$

(3)

$$\pi_{SNO}(\sigma_{JNO='J1'\wedge COLOR='红'}(SPJ \bowtie P))$$

(4)

$$\pi_{JNO}(\sigma_{\neg(CITY='天津'\wedge COLOR='红')}(S \bowtie SPJ \bowtie P))$$

(5)

$$\pi_{PNO,JNO}(SPJ) \div \pi_{PNO}(\sigma_{SNO='S1'}(SPJ))$$