1.关系代数:

元组关系:

2. 关系代数:

元组关系:

3.关系代数:

元组关系:

{T |∃ T1∈ Catalog(∃X ∈Parts(X.color =‘red∧X.pid = T1.pid) ∧T.sid= T1.sid) ∨∃T2∈Suppliers(T2.address = 221PackerStreet∧T.sid= T2.sid)}

4. RA

ρ(R1,πsid((πpidσcolor=redParts) Catalog)) ρ(R2,πsid((πpidσcolor=greenParts) Catalog)) R1∩R2

TRC

{T |∃ T1∈ Catalog(∃X ∈Parts(X.color =‘red∧X.pid = T1.pid) ∧∃T2∈Catalog(∃Y ∈Parts(Y.color = green∧Y.pid= T2.pid) ∧T2.sid = T1.sid)∧T.sid= T1.sid)}