

数据库第二次作业

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第一大题

1.

$T := ((O \bowtie C \bowtie A) \text{ where } C.city = '南京' \text{ AND } A.city = '北京')[ordno, orddate, cid, aid, pid, qty, dols]$

2.

$R1 := ((O \bowtie C \bowtie A) \text{ where } C.city \neq A.city)[aid, aname, city, per]$

$R2 := (O \bowtie A)[aid, aname, city, per]$

$T := (A - R1) - R2$

3.

$T := ((O \bowtie C \bowtie A \bowtie P) \text{ where } C.city \neq A.city \text{ AND } C.city \neq P.city \text{ AND } A.city \neq P.city)[ordno]$

4.

$R1 := (O \bowtie A)[aid, aname, city, per]$

$T := (A - R1)[aname]$

5.

$R1 := (O \bowtie C)[aid, O.cid, city] \bowtie C[city, C.cid]$

$R2 := (R1 \text{ where } O.cid = C.cid)[O.cid, city]$

$R3 := (R1 \bowtie R2 \text{ where } O.cid \neq R2.cid \text{ AND } R1.city = R2.city)[aid, city]$

$T := R1[aid, city] - R3$

第二大题

A	B	C	D	E
a1	b1	c1	d1	e1
a2	b1	c1	d1	e2
a1	b2	c1	d1	e3
a1	b1	c2	d1	e4