CS 143 HW#1 Junhong Wang (504941113)

1

(R-5) U (S-R) is

	A	В	C
inner	4	5	6
	1	2	6
	2	5	\ 4

R MRACS.CAR.BCS.PS

	A	R.B	S.B	10	D
		2	2	4	61
	1	2	8	6	8
	1	2	7	5	9
	3	4	2	4	6
	3	4.	8	6	8
	3	4	ר ר	5	9
	5	6	8	6	8
1		/			

- T customer-name (branch-name = 'Regian 12' (Account))
- (b) It customer-name (OBranch.city<>T.city ABranch.branch.branch=T.branch-name (Branch × QT (Customer MAccount))
- (C) To branch name (Branch) To branch name (Account)
- (d) Toustomer-name (customer) Toustomer-name (branch-name = 'Region 121 (Account))
- (e) Customer-name (Account = Thranch name (Ocity='Los Angeles' (Branch)))

- (f) To custome-name (Account) (Account)
 - TT customer-name (TAI. account-number<> A2. account-number (PAI (Account) X PAZ (Account))

1 Al. customer-name = Az customer-name

TI sid (Student)

- TT SI. sid (OSI. GPA7 SZ. GPA N SI. sid < 752. sid (Psi (Student) X Psi (student)))

5. Toustomer-name (Customer)

- Toustomer-name (Toustomer-name (customer) X

To branch-name (Ocity='Los Angeles' (Branch))

- To customer-name, branch-name (Account))

6. Let R(A,B) : S(B) = Q(A)

Then Q(A) is the largest relation that satisfies the following property: Q(A) \times S(B) is a subset of R(A,B). This is similar to the integer division operator Z = X = Y, where given two integers X and Y, their quotient Z is the the largest integer where $Y \times Z \leq X$