

LAB 1 – DBI202

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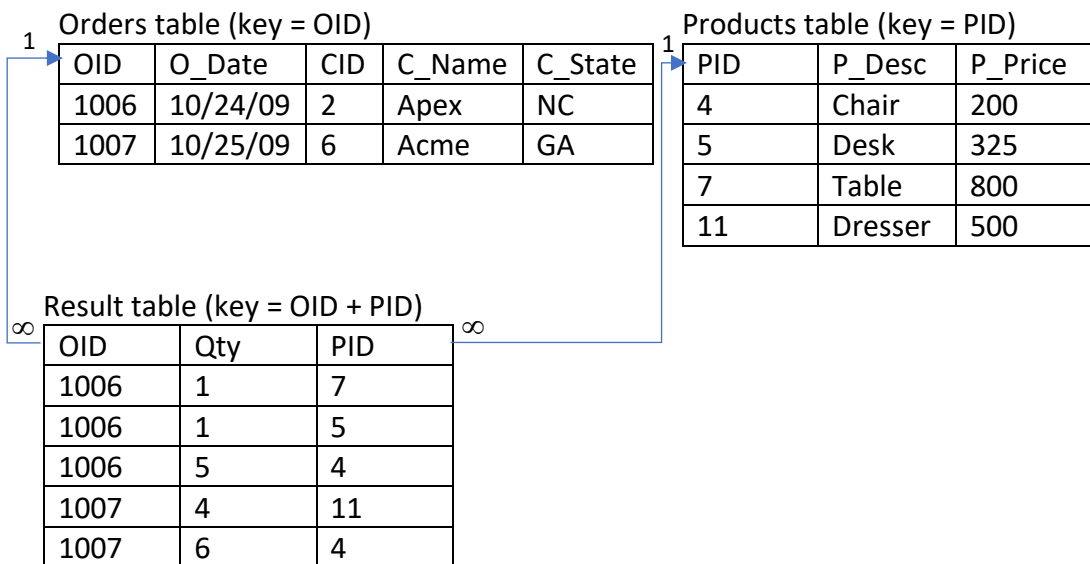
Class: AI1602

Exercise 1:

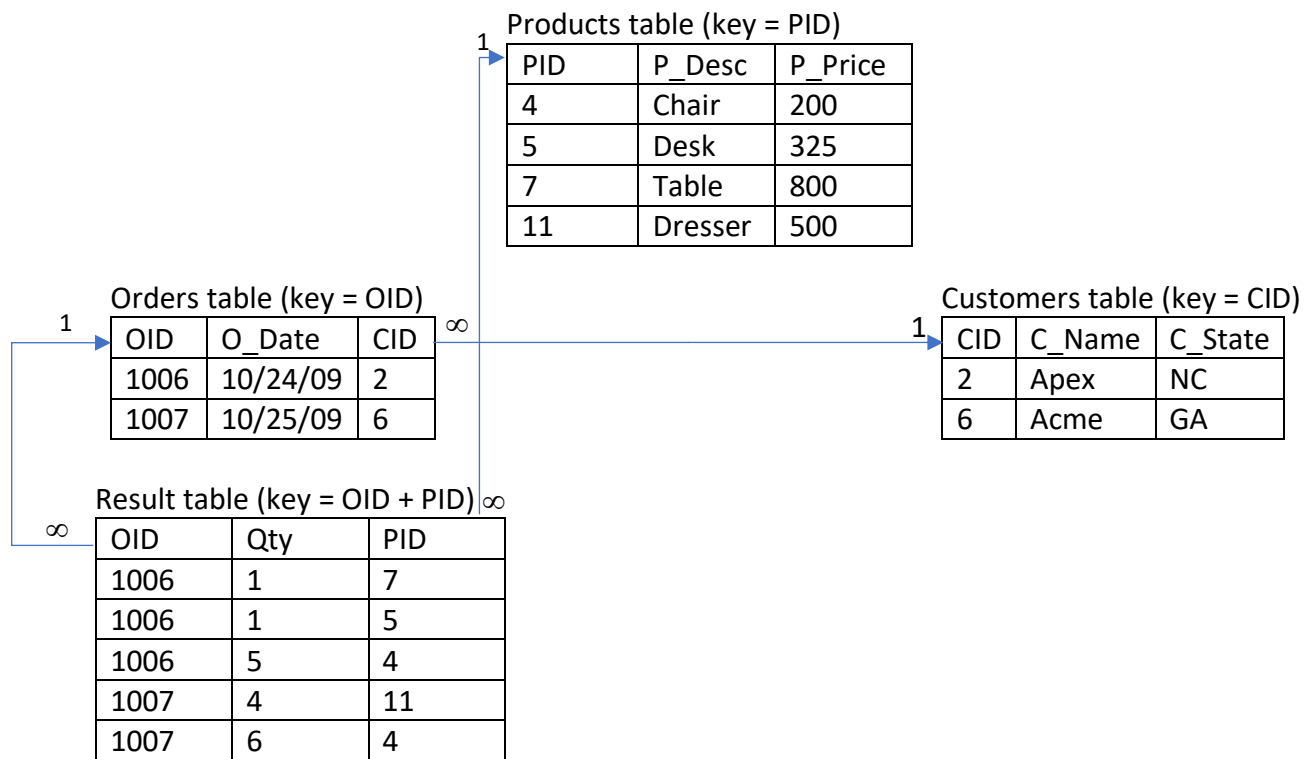
1NF:

OID	O_Date	CID	C_Name	C_State	PID	P_Desc	P_Price	Qty
1006	10/24/09	2	Apex	NC	7	Table	800	1
1006	10/24/09	2	Apex	NC	5	Desk	325	1
1006	10/24/09	2	Apex	NC	4	Chair	200	5
1007	10/25/09	6	Acme	GA	11	Dresser	500	4
1007	10/25/09	6	Acme	GA	4	Chair	200	6

2NF:



3NF:



Exercise 2:

Functional Dependencies:

DID → Dname

EID → Ename

EID → DID

PID → Pname

EID, PID → Btime

2NF:

Employee Table (key = EID)

DID	Dname	EID	Ename
10	Finance	1	Huey
10	Finance	5	Dewey
10	Finance	11	Louie
14	R&D	2	Jack
14	R&D	4	Jill

Project Table (key = PID)

PID	Pname
21	Hill
22	Gamma
25	Beta
26	Pail
27	Alpha

Result Table (key = EID + PID)		
EID	Btime	PID
1	4.5	27
5	3	25
11	7	22
2	8	26
4	9	21

3NF:

Department Table (key = DID)

DID	Dname
10	Finance
14	R&D

Employee Table (key = EID)

EID	Ename	DID
1	Huey	10
2	Jack	14
4	Jill	14
5	Dewey	10
11	Louie	10

Project Table (key = PID)

PID	Pname
21	Hill
22	Gamma
25	Beta
26	Pail
27	Alpha

Results table (key = EID + PID)

EID	PID	Btime
1	27	4.5
5	25	3
11	22	7
2	26	8
4	21	9

