

Course Project

DeVry University

College of Engineering and Information Sciences

Course Number: MIS582

PART I – Answer the questions below

Relational diagram

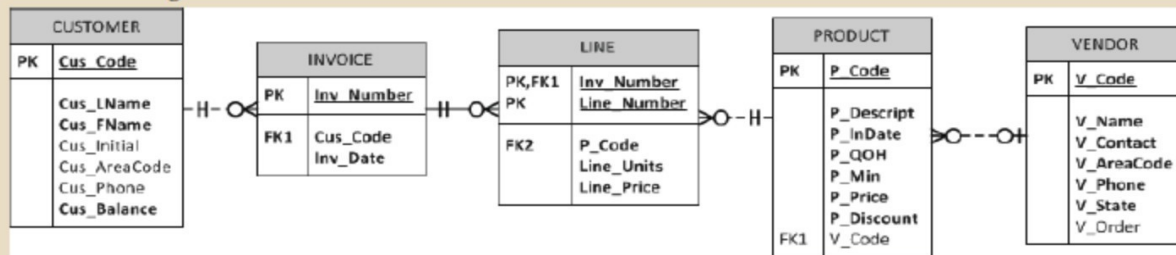


Table name: CUSTOMER

CUS_CODE	CUS_UNAME	CUS_FNAME	CUS_INITIAL	CUS_AREACODE	CUS_PHONE	CUS_BALANCE
10010	Ramos	Alfred	A	615	844-2573	0.00
10011	Dunne	Leona	K	713	894-1238	0.00
10012	Smith	Kathy	W	615	894-2285	345.86
10013	Oleowski	Paul	F	615	894-2180	536.76
10014	Orlando	Myron		615	222-1672	0.00
10015	O'Brian	Amly	B	713	442-3381	0.00
10016	Brown	James	G	615	297-1228	221.19
10017	Williams	George		615	290-2556	768.93
10018	Farriss	Anne	G	713	362-7195	218.55
10019	Smith	Glette	K	615	297-9909	0.00

Table name: VENDOR

V_CODE	V_NAME	V_CONTACT	V_AREACODE	V_PHONE	V_STATE	V_ORDER
21225	Bryson, Inc.	Smithson	615	223-3234	TN	Y
21226	SuperLo, Inc.	Flushing	904	215-8995	FL	N
21231	D&E Supply	Singh	615	228-3245	TN	Y
21344	Gomez Bros.	Ortega	615	889-2546	KY	N
22567	Dome Supply	Smith	901	678-1419	GA	N
23119	Randsels Ltd.	Anderson	901	678-3998	GA	Y
24004	Brackman Bros.	Browning	615	228-1410	TN	N
24288	ORDVA, Inc.	Hakford	615	888-1234	TN	Y
25443	B&K, Inc.	Smith	904	227-0093	FL	N
25501	Daniel Supplies	Smythe	615	880-3529	TN	N
25505	Rubicon Systems	Orton	904	456-0082	FL	Y

Table name: INVOICE

INV_NUMBER	CUS_CODE	INV_DATE
1001	10014	16-Jan-18
1002	10011	16-Jan-18
1003	10012	16-Jan-18
1004	10011	17-Jan-18
1005	10018	17-Jan-18
1006	10014	17-Jan-18
1007	10015	17-Jan-18
1008	10011	17-Jan-18

Table name: LINE

INV_NUMBER	LINE_NUMBER	P_CODE	LINE_UNITS	LINE_PRICE
1001	1	13-Q2P2	1	14.99
1001	2	23109-HB	1	9.95
1002	1	54776-2T	2	4.99
1003	1	223BQPD	1	38.95
1003	2	1546-QQ2	1	39.95
1003	3	13-Q2P2	5	14.99
1004	1	54776-2T	3	4.99
1004	2	23109-HB	2	9.95
1005	1	PVC23DRT	12	5.87
1006	1	SM-18277	3	8.99
1006	2	2232QTY	1	109.92
1006	3	23109-HB	1	9.95
1006	4	88-WRE-Q	1	258.99
1007	1	13-Q2P2	2	14.99
1007	2	54776-2T	1	4.99
1008	1	PVC23DRT	5	5.87
1008	2	WRS3TT3	3	119.95
1008	3	23109-HB	1	9.95

Table name: PRODUCT

P_CODE	P_DESCRIPTION	P_INDATE	P_QOH	P_MIN	P_PRICE	P_DISCOUNT	V_CODE
11GER31	Power painter, 15 gal., 3-nozzle	03-Nov-17	8	5	109.99	0.00	25595
13-Q2P2	7.25-in. pwr. saw blade	13-Dec-17	32	15	14.99	0.05	21344
14-01L3	8.00-in. pwr. saw blade	13-Nov-17	18	12	17.49	0.00	21344
1546-QQ2	Hnd. cloth, 18-in., 2x50	15-Jan-18	15	8	39.95	0.00	23119
1558-QW1	Hnd. cloth, 12-in., 3x50	15-Jan-18	23	5	43.00	0.00	23119
2232QTY	B&D jigsaw, 12-in. blade	30-Dec-17	6	5	109.92	0.05	24288
2238QME	B&D jigsaw, 8-in. blade	24-Dec-17	6	5	99.97	0.05	24288
2238QPD	B&D cordless drill, 1/2-in.	20-Jan-18	12	5	38.95	0.05	25595
23109-HB	Claw hammer	20-Jan-18	23	10	9.95	0.10	21225
23114-AA	Sledge hammer, 12 lb.	02-Jan-18	8	5	14.40	0.05	
54776-2T	Flat-tail file, 1/8-in. fine	15-Dec-17	43	20	4.99	0.00	21344
88-WRE-Q	Hicut chain saw, 16 in.	07-Feb-18	11	5	258.99	0.05	24288
PVC23DRT	PVC pipe, 3.5-in., 8-ft	20-Feb-18	198	75	5.87	0.00	
SM-18277	1.25-in. metal screw, 25	01-Mar-18	172	75	6.99	0.00	21225
SW-23116	2.5-in. wrd. screw, 50	24-Feb-18	237	100	8.45	0.00	21231
WRS3TT3	Steel matting, 4'x8'x1/4", 5" mesh	17-Jan-18	18	5	119.95	0.10	25595

Question 1. For each table, identify the primary key and the foreign key(s). If a table does not have a foreign key, write None.

Table Name	Primary Key	Foreign Key
CUSTOMER	CUS_CODE	none
INVOICE	INV_NUMBER	CUS_CODE
LINE	INV_NUMBER LINE_NUMBER	INV_NUMBER P_CODE
PRODUCT	P_CODE	V_CODE
VENDOR	V_CODE	none

Question 2. Do the tables exhibit entity integrity? Answer yes or no, and then explain your answer.

Yes, the tables exhibit entity integrity because each entry will produce a unique record on the tables.