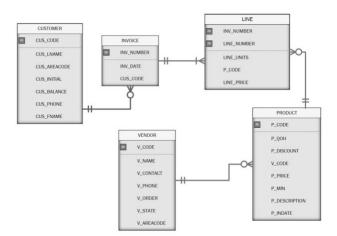
Gurjus Singh

MSDS 420: DATABASE SYSTEMS AND DATA PREPERATION

ASSIGNMENT 2

МАҮ 10тн, 2020



1.) There are 8 invoices in the INVOICE relation. The INVOICE numbers and dates are:

SQL QUERY: SELECT * FROM INVOICE;

INV_NUMBER	INV_DATE
1001	January 16th, 2016
1002	January 16th, 2016
1003	January 16th, 2016
1004	January 17th, 2016
1005	January 17th, 2016
1006	January 17th, 2016
1007	January 17th, 2016
1008	January 17th, 2016

2. There are 10 customers in the CUSTOMER relation. The customer names and codes are listed below:

SQL QUERY: SELECT CUS_CODE, CUS_FNAME, CUS_LNAME FROM CUSTOMER;

CUS_CODE	FIRST NAME	LAST NAME
10016	James	Brown
10011	Leona	Dunne

10018	Anne	Farrias
10015	Ammy	O'Brian
10013	Paul	Olowski
10014	Myron	Orlando
10010	Alfred	Ramas
10012	Kathy	Smith
10019	Olette	Smith
10017	George	Williams

3.

SQL QUERY: SELECT V_CODE, V_NAME FROM VENDOR;

V_CODE V_NAME

21225 Bryson, Inc.

21226 SuperLoo, Inc.

21231 D&E Supply

21344 Gomez Bros.

22567 Dome Supply

23119 Randsets Ltd.

24004 Brackman Bros.

24288 ORDVA, Inc.

25443 B&K, Inc.

25501 Damal Supplies

25595 Rubicon Systems

QUERY: SELECT V STATE, COUNT(V NAME) FROM VENDOR GROUP BY V STATE;

V_STATE | COUNT ON VENDORS

FL 3 GA 2 KY 1 TN 5

4.

QUERY: SELECT P_DESCRIPT,P_QOH,P_PRICE FROM PRODUCT ORDER BY P_PRICE DESC;

The most expensive product is: Hicut chain saw, 16 in, and the quantity on hand is 11.

5. QUERY: SELECT COUNT(CUS_CODE) FROM CUSTOMER WHERE CUS_BALANCE > 500;

The number of customers that have a balance over 500 is 2. Below is the query to list the customers and their names and balance.

QUERY: SELECT CUS_CODE, CUS_FNAME, CUS_LNAME, CUS_BALANCE FROM CUSTOMER WHERE CUS_BALANCE > 500;

CUSTOMERS WITH PRICE OVER 500:

CUS_CODE CUS_FNAME CUS_LNAME CUS_BALANCE

 10013
 Paul
 Olowski
 536.75

 10017
 George
 Williams
 768.93

6. QUERY: SELECT V_NAME, P_CODE, P_DESCRIPT FROM PRODUCT AS P, VENDOR AS V WHERE P.V_CODE = V.V_CODE ORDER BY V_NAME, P_CODE;

HERE IS A LIST OF PRODUCTS THAT EACH VENDOR HAS:

V_NAME P_CODE P_DESCRIPT

Bryson, Inc. 23109-HB Claw hammer

Bryson, Inc. SM-18277 1.25-in. metal screw, 25 D&E Supply SW-2311 62.5-in. wd. screw, 50 Gomez Bros. 13-Q2/P2 7.25-in. pwr. saw blade Gomez Bros. 14-Q1/L3 9.00-in. pwr. saw blade 54778-2T Rat-tail file, 1/8-in. fine Gomez Bros. ORDVA, Inc. 2232/QTY B&D jigsaw, 12-in. blade 2232/QWE B&D jigsaw, 8-in. blade ORDVA, Inc. 89-WRE-Q Hicut chain saw, 16 in. ORDVA, Inc. Randsets Ltd. 1546-QQ2 Hrd. cloth, 1/4-in., 2x50 1558-QW1 Hrd. cloth, 1/2-in., 3x50 Randsets Ltd.

Rubicon Systems 11QER/31 Power painter, 15 psi., 3-nozzle

Rubicon Systems 2238/QPD B&D cordless drill, 1/2-in.

Rubicon Systems WR3/TT3 Steel matting, 4'x8'x1/6", .5" mesh

7. **QUERY**:

SELECT CUS_CODE, I.INV_NUMBER, LINE_NUMBER, LINE_PRICE,LINE_UNITS,

LINE_PRICE*LINE_UNITS as Purchase

FROM INVOICE as I,LINE as L

WHERE I.INV NUMBER = L.INV NUMBER

ORDER BY CUS CODE, L.INV NUMBER, LINE NUMBER;

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CUS_CODE	INV_NUMBER	LINE_NUMBER	LINE_PRICE	LINE_UNITS	PURCHASE
10011	1002	1	4.99	2	9.98
10011	1004	1	4.99	3	14.97
10011	1004	2	9.95	2	19.9
10011	1008	1	5.87	5	29.35
10011	1008	2	119.95	3	359.85
10011	1008	3	9.95	1	9.95
10012	1003	1	38.95	1	38.95
10012	1003	2	39.95	1	39.95
10012	1003	3	14.99	5	74.95
10014	1001	1	14.99	1	14.99

10014	1001	2	9.95	1	9.95
10014	1006	1	6.99	3	20.97
10014	1006	2	109.92	1	109.92
10014	1006	3	9.95	1	9.95
10014	1006	4	256.99	1	256.99
10015	1007	1	14.99	2	29.98
10015	1007	2	4.99	1	4.99
10018	1005	1	5.87	12	70.44

The above table is the listing of Customer purchases, with subtotals per each line.

8.
QUERY: SELECT C.CUS_CODE,CUS_BALANCE FROM CUSTOMER AS C, INVOICE AS I WHERE C.CUS_CODE = I.CUS_CODE ORDER BY I.CUS_CODE;

CUS_CODE 10011	CUS_BALANCE 0
10011	0
10011	0
10012 10014	345.86 0
10014	0
10015	0
10018	216.55

The Balance Characteristic for all customers who made purchases was a balance was 0, although there were two customers that still had money in their account.

9.
QUERY: SELECT C.CUS_CODE FROM CUSTOMER as C
LEFT JOIN INVOICE as I ON C.CUS_CODE = I.CUS_CODE
WHERE I.CUS_CODE IS NULL
ORDER BY C.CUS_CODE;

CUS_CODE 10010 10013

10016

10017

10019

Here are all the customers who did not make a purchase.

10. QUERY: SELECT SUM(P_QOH*P_PRICE) as Summary FROM PRODUCT;

The value of products currently in inventory is: \$15,084.52.