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MSDS 420: DATABASE SYSTEMS AND DATA PREPERATION

ASSIGNMENT 2

MAY 10TH, 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

Gomez Bros. 54778-2T Rat-tail file, 1/8-in. fine

ORDVA, Inc. 2232/QTY B&D jigsaw, 12-in. blade

ORDVA, Inc. 2232/QWE B&D jigsaw, 8-in. blade

ORDVA, Inc. 89-WRE-Q Hicut chain saw, 16 in.

Randsets Ltd. 1546-QQ2 Hrd. cloth, 1/4-in., 2x50

Randsets Ltd. 1558-QW1 Hrd. cloth, 1/2-in., 3x50

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;

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 CUS\_BALANCE

10011 0

10011 0

10011 0

10012 345.86

10014 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.