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CIS 310-02

Week 11 Assignment

Using the database structures depicted in Figures 7.17, 7.18, 7.19. 7.20 7.21,7.22, 7.23, 7.24,7.25,on pages 325 to 330 of your textbook, write the SQL commands to answer problems asked in questions: 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

17.

Use a query to show the invoice and invoice totals in Figure P7.17. Sort the results by customer code and then by invoice number.

SELECT CUSTOMER.CUS\_CODE, INVOICE.INV\_NUMBER,

SUM(LINE\_PRICE\*LINE\_UNITS) AS 'Invoice Total'

FROM LINE, CUSTOMER, INVOICE

WHERE CUSTOMER.CUS\_CODE=INVOICE.CUS\_CODE

AND INVOICE.INV\_NUMBER=LINE.INV\_NUMBER

GROUP BY CUSTOMER.CUS\_CODE, INVOICE.INV\_NUMBER

ORDER BY CUSTOMER.CUS\_CODE;

20.

List the balances of customers who have made purchases during the current invoice cycle—that is, for the customers who appear in the Invoice table. Sort the results by customer code, as shown in Figure P7.20, sorted by customer code.

SELECT DISTINCT CUSTOMER.CUS\_CODE, CUSTOMER.CUS\_BALANCE  
FROM INVOICE, CUSTOMER  
WHERE CUSTOMER.CUS\_CODE=INVOICE.CUS\_CODE  
ORDER BY CUSTOMER.CUS\_CODE;

21. Provide a summary of customer balance characteristics for customer who made purchases. Include the minimum balance, maximum balance, and average balance, as shown in figure P7.21.

SELECT Min(CUSTOMER.CUS\_BALANCE) AS ‘Minimum Balance’,

Max(CUSTOMER.CUS\_BALANCE) AS ‘Maximum Balance’,

Avg(CUSTOMER.CUS\_BALANCE) AS ‘Average Balance’

FROM CUSTOMER;

22. Create a query to find the balance characteristics for all customers, including the total of the outstanding balance. The results of this query are shown in Figure P7.22.

SELECT

Sum(CUSTOMER.CUS\_BALANCE) AS Total\_Balance,

Min(CUSTOMER.CUS\_BALANCE) AS Minimum\_Balance,

Max(CUSTOMER.CUS\_BALANCE) AS Maximum\_Balance,

Avg(CUSTOMER.CUS\_BALANCE) AS Average\_Balance

FROM CUSTOMER;

23.

SELECT CUS\_CODE, CUS\_BALANCE

FROM CUSTOMER

WHERE CUS\_CODE NOT IN (SELECT UNIQUE CUS\_CODE FROM INVOICE);

24.

SELECT SUM(CUS\_BALANCE) AS [Total Balance],

MIN(CUS\_BALANCE) AS [Minimum Balance],

MAX(CUS\_BALANCE) AS [Maximum Balance],

AVG(CUS\_BALANCE) AS [Average Balance]

FROM CUSTOMER

WHERE CUS\_CODE NOT IN (SELECT CUS\_CODE FROM INVOICE);

25.

SELECT PRODUCT.P\_DESCRIPT, PRODUCT.P\_QOH, PRODUCT.P\_PRICE,

P\_QOH\*P\_PRICE AS Subtotal

FROM PRODUCT

ORDER BY P\_QOH\*P\_PRICE DESC;

26.

SELECT Sum([P\_Price]\*[P\_QOH]) AS [Total Value of Inventory]

FROM PRODUCT;

27.

SELECT \*

FROM LGDEPARTMENT

28.

SELECT PROD\_SKU, PROD\_DESCRIPT, PROD\_TYPE, PROD\_BASE, PROD\_CATEGORY, PROD\_PRICE

FROM LGPRODUCT

WHERE PROD\_BASE = 'WATER' AND

PROD\_CATEGORY = 'SEALER'

29.

SELECT EMP\_FNAME,EMP\_LNAME,EMP\_EMAIL

FROM LGEMPLOYEE

WHERE EMP\_HIREDATE > '2005-01-01' AND

EMP\_HIREDATE < '2014-12-31'

ORDER BY EMP\_LNAME,EMP\_FNAME

30.

SELECT EMP\_FNAME, EMP\_LNAME ,EMP\_EMAIL

FROM LGEMPLOYEE

WHERE EMP\_HIREDATE > #01/01/2005# AND

EMP\_HIREDATE < #31/12/2014#

ORDER BY EMP\_LNAME, EMP\_FNAME;

All problems have been solved using Microsoft Access SQL