1. Write a query to count the number of invoices.

SELECT COUNT(\*)

FROM INVOICE;

Answer: 8

1. Write a query to count the number of customers with a customer balance over $500.

SELECT COUNT(\*)

FROM CUSTOMER

WHERE CUS\_BALANCE > 500;

Answer: 2

1. Generate a listing of all purchases made by customers.

SELECT INVOICE.CUS\_CODE, INVOICE.INV\_NUMBER, INVOICE.INV\_DATE, PRODUCT.P\_DESCRIPT,

LINE.LINE\_UNITS, LINE.LINE\_PRICE

FROM CUSTOMER, INVOICE, LINE, PRODUCT

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

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

AND PRODUCT.P\_CODE=LINE.P\_CODE;

10014|1001|16-JAN-2016|7.25-in. pwr. saw blade|1|14.99

10014|1001|16-JAN-2016|Claw hammer|1|9.95

10011|1002|16-JAN-2016|Rat-tail file, 1/8-in. fine|2|4.99

10012|1003|16-JAN-2016|B&D cordless drill, 1/2-in.|1|38.95

10012|1003|16-JAN-2016|Hrd. cloth, 1/4-in., 2x50|1|39.95

10012|1003|16-JAN-2016|7.25-in. pwr. saw blade|5|14.99

10011|1004|17-JAN-2016|Rat-tail file, 1/8-in. fine|3|4.99

10011|1004|17-JAN-2016|Claw hammer|2|9.95

10018|1005|17-JAN-2016|PVC pipe, 3.5-in., 8-ft|12|5.87

10014|1006|17-JAN-2016|1.25-in. metal screw, 25|3|6.99

10014|1006|17-JAN-2016|B&D jigsaw, 12-in. blade|1|109.92

10014|1006|17-JAN-2016|Claw hammer|1|9.95

10014|1006|17-JAN-2016|Hicut chain saw, 16 in.|1|256.99

10015|1007|17-JAN-2016|7.25-in. pwr. saw blade|2|14.99

10015|1007|17-JAN-2016|Rat-tail file, 1/8-in. fine|1|4.99

10011|1008|17-JAN-2016|PVC pipe, 3.5-in., 8-ft|5|5.87

10011|1008|17-JAN-2016|Steel matting, 4'x8'x1/6", .5" mesh|3|119.95

10011|1008|17-JAN-2016|Claw hammer|1|9.95

1. Generate a listing of customer purchases, including the subtotals for each of the invoice line numbers.

SELECT INVOICE.CUS\_CODE, INVOICE.INV\_NUMBER, PRODUCT.P\_DESCRIPT, LINE.LINE\_UNITS AS ‘Purchases’,

LINE.LINE\_PRICE AS ‘Price’, LINE.LINE\_UNITS \* LINE.LINE\_PRICE AS Subtotal

FROM CUSTOMER, INVOICE, LINE, PRODUCT

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

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

AND PRODUCT.P\_CODE=LINE.P\_CODE;

10014|1001|7.25-in. pwr. saw blade|1|14.99|14.99

10014|1001|Claw hammer|1|9.95|9.95

10011|1002|Rat-tail file, 1/8-in. fine|2|4.99|9.98

10012|1003|B&D cordless drill, 1/2-in.|1|38.95|38.95

10012|1003|Hrd. cloth, 1/4-in., 2x50|1|39.95|39.95

10012|1003|7.25-in. pwr. saw blade|5|14.99|74.95

10011|1004|Rat-tail file, 1/8-in. fine|3|4.99|14.97

10011|1004|Claw hammer|2|9.95|19.9

10018|1005|PVC pipe, 3.5-in., 8-ft|12|5.87|70.44

10014|1006|1.25-in. metal screw, 25|3|6.99|20.97

10014|1006|B&D jigsaw, 12-in. blade|1|109.92|109.92

10014|1006|Claw hammer|1|9.95|9.95

10014|1006|Hicut chain saw, 16 in.|1|256.99|256.99

10015|1007|7.25-in. pwr. saw blade|2|14.99|29.98

10015|1007|Rat-tail file, 1/8-in. fine|1|4.99|4.99

10011|1008|PVC pipe, 3.5-in., 8-ft|5|5.87|29.35

10011|1008|Steel matting, 4'x8'x1/6", .5" mesh|3|119.95|359.85

10011|1008|Claw hammer|1|9.95|9.95

1. List the balance characteristics of the customers who have made purchases during the current invoice cycle—that is, for the customers who appear in the INVOICE table.

SELECT CUS\_CODE, CUS\_BALANCE

FROM CUSTOMER

WHERE CUSTOMER.CUS\_CODE IN (SELECT DISTINCT CUS\_CODE FROM INVOICE);

10011|0

10012|345.86

10014|0

10015|0

10018|216.55

1. Find a listing of customers who did not make purchases during the invoicing period.

SELECT CUS\_CODE, CUS\_BALANCE

FROM CUSTOMER

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

10010|0

10013|536.75

10016|221.19

10017|768.93

10019|0

1. Create a query to produce a summary of the value of products currently in inventory.

SELECT P\_DESCRIPT, P\_QOH, P\_PRICE, P\_QOH \* P\_PRICE AS Subtotal

FROM PRODUCT;

Power painter, 15 psi., 3-nozzle|8|109.99|879.92

7.25-in. pwr. saw blade|32|14.99|479.68

9.00-in. pwr. saw blade|18|17.49|314.82

Hrd. cloth, 1/4-in., 2x50|15|39.95|599.25

Hrd. cloth, 1/2-in., 3x50|23|43.99|1011.77

B&D jigsaw, 12-in. blade|8|109.92|879.36

B&D jigsaw, 8-in. blade|6|99.87|599.22

B&D cordless drill, 1/2-in.|12|38.95|467.4

Claw hammer|23|9.95|228.85

Sledge hammer, 12 lb.|8|14.4|115.2

Rat-tail file, 1/8-in. fine|43|4.99|214.57

Hicut chain saw, 16 in.|11|256.99|2826.89

PVC pipe, 3.5-in., 8-ft|188|5.87|1103.56

1.25-in. metal screw, 25|172|6.99|1202.28

2.5-in. wd. screw, 50|237|8.45|2002.65

Steel matting, 4'x8'x1/6", .5" mesh|18|119.95|2159.1