

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

```
SELECT COUNT(*)
FROM INVOICE;
```

Answer: 8

2. 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

3. 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
```

4. 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

```

5. 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

```

6. 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

```

7. 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

```