

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

```
SELECT COUNT(*) AS [Q1] FROM INVOICE;
```

Q1
8

-- 2.) Write a query to count the number of customers with a customer balance over \$500.

```
SELECT COUNT(*) AS [Q2] FROM CUSTOMER WHERE [CUS_BALANCE] > 500;
```

Q2
2

-- 3.) Generate a listing of all purchases made by customers.

```
SELECT  
C.[CUS_FNAME] || ' ' || C.[CUS_LNAME] AS [Customer Name],  
COUNT( [ALL | DISTINCT] ) AS [Orders]  
FROM  
[INVOICE] I  
INNER JOIN CUSTOMER C ON  
I.[CUS_CODE] = C.[CUS_CODE]  
GROUP BY  
I.[CUS_CODE];
```

Customer Name	Orders
Leona Dunne	3
Kathy Smith	1
Myron Orlando	2
Amy O'Brian	1
Anne Farriss	1

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

```
SELECT  
C.[CUS_FNAME] || ' ' || C.[CUS_LNAME] AS [Customer Name],  
SUM( L.[LINE_PRICE] * L.[LINE_UNITS] ) AS [Balance]  
FROM  
INVOICE I  
INNER JOIN [LINE] L  
ON I.[INV_NUMBER] = L.[INV_NUMBER]  
INNER JOIN [CUSTOMER] C  
ON I.[CUS_CODE] = C.[CUS_CODE]  
GROUP BY  
I.[INV_NUMBER]
```

Customer Name	Balance
Myron Orlando	24.94
Leona Dunne	9.98
Kathy Smith	153.85
Leona Dunne	34.87
Anne Farriss	70.44
Myron Orlando	397.83
Amy O'Brian	34.97
Leona Dunne	399.15

-- 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  
C.[CUS_FNAME] || ' ' || C.[CUS_LNAME] AS [Customer Name],  
COUNT( [ALL | DISTINCT] ) AS [Orders],  
SUM( C.[CUS_BALANCE] ) AS [Balance]  
FROM  
[INVOICE] I  
INNER JOIN CUSTOMER C ON  
I.[CUS_CODE] = C.[CUS_CODE]  
GROUP BY  
I.[CUS_CODE];
```

Customer Name	Orders	Balance
Leona Dunne	3	0
Kathy Smith	1	345.86
Myron Orlando	2	0
Amy O'Brian	1	0
Anne Farriss	1	216.55

-- 6.) Find a listing of customers who did not make purchases during the invoicing period.

```
SELECT  
C.[CUS_FNAME] || ' ' || C.[CUS_LNAME] AS [Customer Name]  
FROM  
[CUSTOMER] C  
LEFT OUTER JOIN [INVOICE] I  
ON C.[CUS_CODE] = I.[CUS_CODE]  
WHERE  
[INV_NUMBER] IS NULL  
;
```

Customer Name
James Brown
Paul Olowski
Alfred Ramas
Olette Smith
George Williams

-- 7.) Create a query to produce a summary of the value of products currently in inventory.

```
SELECT
[P_DESCRIPT] AS [Product],
[P_QOH] * [P_PRICE] AS [ValueOnHand],
( CASE [P_DISCOUNT] WHEN 0 THEN 1 ELSE 1 - [P_DISCOUNT] END ) *
[P_PRICE] * [P_QOH] AS [DiscountedValue]
FROM
[PRODUCT]
```

Product	ValueOnHand	DiscountedValue
Power painter, 15 psi., 3-nozzle	879.92	879.92
7.25-in. pwr. saw blade	479.68	455.696
9.00-in. pwr. saw blade	314.82	314.82
Hrd. cloth, 1/4-in., 2x50	599.25	599.25
Hrd. cloth, 1/2-in., 3x50	1011.77	1011.77
B&D jigsaw, 12-in. blade	879.36	835.392
B&D jigsaw, 8-in. blade	599.22	569.259
B&D cordless drill, 1/2-in.	467.4	444.03
Claw hammer	228.85	205.965
Sledge hammer, 12 lb.	115.2	109.44
Rat-tail file, 1/8-in. fine	214.57	214.57
Hicut chain saw, 16 in.	2826.89	2685.5455
PVC pipe, 3.5-in., 8-ft	1103.56	1103.56
1.25-in. metal screw, 25	1202.28	1202.28
2.5-in. wd. screw, 50	2002.65	2002.65
Steel matting, 4'x8'x1/6", .5" mesh	2159.1	1943.19