

(1)

```
SELECT  VENDOR_ID,INVOICE_ID,INVOICE_DATE,TO_CHAR((INVOICE_TOTAL-
(PAYMENT_TOTAL+CREDIT_TOTAL)), '$99,990.00') AS BALANCE_DUE

FROM INVOICES

WHERE (INVOICE_TOTAL-(PAYMENT_TOTAL+CREDIT_TOTAL))> 5000

ORDER BY BALANCE_DUE DESC;
```

VENDOR_ID	INVOICE_ID	INVOICE_DATE	BALANCE_DUE
72	113	18-07-14	\$21,842.00
110	3	11-04-14	\$19,351.18
110	34	07-05-14	\$10,976.06

(2)

```
SET LINESIZE 1000

COLUMN CONTACT_NAME FORMAT A30

COLUMN VENDOR_CITY FORMAT A15

COLUMN VENDOR_STATE FORMAT A15
```

```

SELECT VENDOR_ID, VENDOR_NAME, VENDOR_CONTACT_FIRST_NAME || ' ' || VENDOR_CONTACT_LAST_NAME AS
CONTACT_NAME, VENDOR_CITY, VENDOR_STATE

FROM VENDORS

WHERE VENDOR_STATE IN ('IL','IN','IA','MI','WI')

ORDER BY VENDOR_CITY, VENDOR_STATE;

```

VENDOR_ID	VENDOR_NAME	CONTACT_NAME	VENDOR_CITY	VENDOR_STATE
110	Malloy Lithographing Inc	Abe Regging	Ann Arbor	MI
72	Data Reproductions Corp	Cesar Arodondo	Auburn Hills	MI
65	The Drawing Board	Jeffery Mckayla	Carol Stream	IL
49	Mcgraw Hill Companies	Rashad Holbrooke	Chicago	IL
55	Quality Education Data	Kayle Misael	Chicago	IL
46	Open Horizons Publishing	Deborah Damien	Fairfield	IA
1	US Postal Service	Francesco Alberto	Madison	WI
26	Small Press	Dusty Colette	Traverse City	MI
24	Zee Medical Service Co	Juliana Hallie	Washington	IA

9 rows selected

(3)

```
COLUMN TOTAL_AMOUNT FORMAT $999,999,999.99
COLUMN DESCRIPTION FORMAT A30
SELECT LINE_ITEM_DESCRIPTION AS DESCRIPTION, LINE_ITEM_AMT AS TOTAL_AMOUNT
FROM INVOICE_LINE_ITEMS
WHERE LINE_ITEM_AMT > 10000
ORDER BY TOTAL_AMOUNT DESC;
```

DESCRIPTION	TOTAL_AMOUNT
-----	-----
CICS Desk Reference	\$37,966.19
MVS JCL	\$26,881.40
DB2 Part 1	\$23,517.58
Book repro	\$21,842.00
CICS Part 2	\$20,551.18
VSAM for the Cobol Programmer	\$10,976.06

6 rows selected

**OR**

```
COLUMN TOTAL_AMOUNT FORMAT $999,999,999.99
COLUMN DESCRIPTION FORMAT A30
SELECT LINE_ITEM_DESCRIPTION AS DESCRIPTION, LINE_ITEM_AMT AS TOTAL_AMOUNT
FROM INVOICE_LINE_ITEMS
GROUP BY LINE_ITEM_DESCRIPTION
HAVING SUM (LINE_ITEM_AMT) > 10000
ORDER BY TOTAL_AMOUNT DESC;
```

TOTAL	LINE_ITEM_DESCRIPTION
-----	
\$379,66.19	CICS Desk Reference
\$268,81.40	MVS JCL
\$268,35.53	Freight
\$235,17.58	DB2 Part 1
\$218,42.00	Book repro

\$205,51.18 CICS Part 2

\$109,76.06 VSAM for the Cobol Programmer

7 rows selected

(4)

COLUMN LINE\_ITEM\_DESCRIPTION FORMAT A30

COLUMN VENDOR\_NAME FORMAT A25

COLUMN AMOUNT FORMAT \$99,999.99

COLUMN INVOICE\_NUMBER FORMAT A15

SELECT VENDORS.VENDOR\_ID, VENDORS.VENDOR\_NAME, INVOICE\_NUMBER, LINE\_ITEM\_DESCRIPTION, LINE\_ITEM\_AMT  
AS AMOUNT

FROM VENDORS

JOIN INVOICES ON VENDORS.VENDOR\_ID = INVOICES.VENDOR\_ID

JOIN INVOICE\_LINE\_ITEMS ON INVOICES.INVOICE\_ID = INVOICE\_LINE\_ITEMS.INVOICE\_ID

WHERE LINE\_ITEM\_DESCRIPTION LIKE ('%CICS%') OR LINE\_ITEM\_DESCRIPTION LIKE ('%COBOL%')

OR LINE\_ITEM\_DESCRIPTION LIKE ('%MVS%') OR LINE\_ITEM\_DESCRIPTION LIKE ('%VSAM%')

ORDER BY VENDORS.VENDOR\_ID;

VENDOR_ID	VENDOR_NAME	INVOICE_NUMBER	LINE_ITEM_DESCRIPTION	AMOUNT
34	IBM	QP58872	MVS Online Library	\$116.54
110	Malloy Lithographing Inc	P-0608	CICS Part 2	\$20,551.18
110	Malloy Lithographing Inc	P-0259	MVS JCL	\$26,881.40
110	Malloy Lithographing Inc	0-2058	CICS Desk Reference	\$37,966.19
110	Malloy Lithographing Inc	0-2436	VSAM for the Cobol Programmer	\$10,976.06

(5)

SET LINESIZE 1000

COLUMN VENDOR\_NAME FORMAT A30

COLUMN INVOICE\_NUMBER FORMAT A15

```

SELECT D.VENDOR_ID, D.VENDOR_NAME, I.INVOICE_NUMBER, I.INVOICE_DATE, I.INVOICE_DUE_DATE,
TO_CHAR(I.INVOICE_TOTAL - (I.PAYMENT_TOTAL + I.CREDIT_TOTAL), '$999,999,99.00') AS BALANCE_DUE
FROM INVOICES I, VENDORS D
WHERE I.VENDOR_ID = D.VENDOR_ID AND

```

```

MONTHS_BETWEEN(SYSDATE, I.INVOICE_DUE_DATE)>= 16 AND
I.INVOICE_TOTAL - (I.PAYMENT_TOTAL + I.CREDIT_TOTAL) > 0
ORDER BY INVOICE_DUE_DATE;

```

VENDOR_ID	VENDOR_NAME	INVOICE_NUMBER	INVOICE_DATE	INVOICE_DUE_DATE	BALANCE_DUE
83	Ingram	31359783	23-05-14	09-06-14	\$15,75.00
83	Ingram	31361833	23-05-14	09-06-14	\$5,79.42
94	Abbey Office Furnishings	203339-13	02-05-14	13-06-14	\$17.50
106	Ford Motor Credit Company	9982771	03-06-14	18-06-14	\$5,03.20
122	United Parcel Service	989319-487	18-04-14	19-06-14	\$19,27.54
123	Federal Express Corporation	43966316	17-05-14	19-06-14	\$10.00

6 rows selected

(6)

COLUMN TOTAL\_BALANCE\_DUE FORMAT \$999,999,999.99

COLUMN VENDOR\_NAME FORMAT A25

SELECT VENDORS.VENDOR\_NAME, SUM (INVOICES.INVOICE\_TOTAL - (INVOICES.PAYMENT\_TOTAL +  
INVOICES.CREDIT\_TOTAL)) AS TOTAL\_BALANCE\_DUE

FROM VENDORS JOIN INVOICES ON VENDORS.VENDOR\_ID = INVOICES.VENDOR\_ID

GROUP BY VENDORS.VENDOR\_ID, VENDORS.VENDOR\_NAME,VENDORS.VENDOR\_PHONE

HAVING SUM(INVOICES.INVOICE\_TOTAL - (INVOICES.PAYMENT\_TOTAL + INVOICES.CREDIT\_TOTAL)) > 4000

ORDER BY VENDOR\_NAME;

VENDOR_NAME	TOTAL_BALANCE_DUE
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Data Reproductions Corp	\$21,927.31
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Malloy Lithographing Inc	\$30,327.24
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United Parcel Service	\$4,239.74
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(7)

COLUMN TOTAL\_BALANCE\_DUE FORMAT \$99,999.99

COLUMN VENDOR\_PHONE FORMAT A15

SELECT VENDORS.VENDOR\_ID, VENDORS.VENDOR\_NAME, VENDORS.VENDOR\_PHONE, SUM (INVOICES.INVOICE\_TOTAL -  
(INVOICES.PAYMENT\_TOTAL +

INVOICES.CREDIT\_TOTAL)) AS TOTAL\_BALANCE\_DUE

FROM VENDORS JOIN INVOICES ON VENDORS.VENDOR\_ID = INVOICES.VENDOR\_ID

GROUP BY VENDORS.VENDOR\_ID, VENDORS.VENDOR\_NAME, VENDORS.VENDOR\_PHONE

HAVING SUM (INVOICES.INVOICE\_TOTAL - (INVOICES.PAYMENT\_TOTAL + INVOICES.CREDIT\_TOTAL)) > 4000

ORDER BY TOTAL\_BALANCE\_DUE DESC;

VENDOR_ID	VENDOR_NAME	VENDOR_PHONE	TOTAL_BALANCE_DUE
110	Malloy Lithographing Inc	(313) 555-6113	\$30,327.24
72	Data Reproductions Corp	(810) 555-3700	\$21,927.31
122	United Parcel Service	(800) 555-0855	\$4,239.74

(8)

```
SET LINESIZE 1000
```

```
COLUMN VENDOR_CITY FORMAT A15
```

```
SELECT DISTINCT Vendor_city
```

```
FROM vendors A WHERE vendor_city
```

```
IN
```

```
(SELECT b.vendor_city FROM vendors b WHERE A.vendor_state<> b.vendor_state AND A.vendor_city =  
b.vendor_city);
```

```
VENDOR_CITY
```

```
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```

```
Fairfield
```

```
Washington
```

(9)

```
COLUMN BALANCE_DUE FORMAT $999,999,999.99
COLUMN INVOICE_TOTAL FORMAT $99,999.99
SELECT * FROM
(SELECT VENDORS.VENDOR_NAME, INVOICES.INVOICE_DATE, INVOICES.INVOICE_TOTAL
FROM VENDORS JOIN INVOICES ON VENDORS.VENDOR_ID = INVOICES.VENDOR_ID
ORDER BY INVOICE_TOTAL DESC)
WHERE ROWNUM <= 5;
```

VENDOR_NAME	INVOICE_DATE	INVOICE_TOTAL
-----	-----	-----
Malloy Lithographing Inc	08-05-14	\$37,966.19
Malloy Lithographing Inc	16-04-14	\$26,881.40
Malloy Lithographing Inc	08-05-14	\$23,517.58
Data Reproductions Corp	18-07-14	\$21,842.00
Malloy Lithographing Inc	11-04-14	\$20,551.18

(10)

```
SELECT      VENDOR_NAME,
            INVOICE_DATE,
            BALANCE_DUE
FROM        (SELECT      VENDOR_NAME,
                        INVOICE_DATE,
                        INVOICE_TOTAL - (PAYMENT_TOTAL + CREDIT_TOTAL) AS BALANCE_DUE
FROM          VENDORS D, INVOICES I
WHERE         D.VENDOR_ID = I.VENDOR_ID
ORDER BY     BALANCE_DUE DESC)
WHERE ROWNUM <= (SELECT      (COUNT (*) * 0.06)
FROM VENDORS D, INVOICES I
WHERE D.VENDOR_ID = I.VENDOR_ID);
```

VENDOR_NAME	INVOICE_DATE	BALANCE_DUE
-----	-----	-----
Data Reproductions Corp	18-07-14	\$21,842.00

Malloy Lithographing Inc	11-04-14	\$19,351.18
Malloy Lithographing Inc	07-05-14	\$10,976.06
Computerworld	31-05-14	\$2,433.00
United Parcel Service	17-04-14	\$2,312.20
United Parcel Service	18-04-14	\$1,927.54

6 rows selected