

PART A

1.

week6ex.sql - localhost.AP (EC2AMAZ-LSJ1ANT\student (63)) - Microsoft SQL Server Enterprise Manager 172.25.28.212

File Edit View Query Project Debug Tools Window Help

AP Execute Debug

week6ex.sql - local...J1ANT\student (63) Object Explorer

```

SELECT *
FROM Vendors JOIN Invoices
ON Vendors.VendorID = Invoices.VendorID;

SELECT VendorName, InvoiceNumber, InvoiceDate,
       InvoiceTotal - PaymentTotal - CreditTotal AS Balance
FROM Vendors JOIN Invoices
ON Vendors.VendorID = Invoices.VendorID
WHERE InvoiceTotal - PaymentTotal - CreditTotal > 0
ORDER BY VendorName;
    
```

100 %

Results Messages

	VendorID	VendorName	VendorAddress1	VendorAddress2	VendorCity	VendorState	VendorZipCode	VendorPhone	VendorContactLName	VendorContactFName	Dr
1	34	IBM	PO Box 61000	NULL	San Francisco	CA	94161	(800) 555-4426	Camron	Trentin	1
2	34	IBM	PO Box 61000	NULL	San Francisco	CA	94161	(800) 555-4426	Camron	Trentin	1
3	37	Blue Cross	PO Box 9061	NULL	Oxnard	CA	93031	(800) 555-0912	Elana	Nikolas	3
4	37	Blue Cross	PO Box 9061	NULL	Oxnard	CA	93031	(800) 555-0912	Elana	Nikolas	3
5	37	Blue Cross	PO Box 9061	NULL	Oxnard	CA	93031	(800) 555-0912	Elana	Nikolas	3
6	48	Fresno County Tax Collector	PO Box 1192	NULL	Fresno	CA	93715	(559) 555-3482	Brenton	Kila	3
7	72	Data Reproductions Corp	4545 Glenmeade Lane	NULL	Auburn Hills	MI	48326	(810) 555-3700	Arodondo	Cesar	3
8	72	Data Reproductions Corp	4545 Glenmeade Lane	NULL	Auburn Hills	MI	48326	(810) 555-3700	Arodondo	Cesar	3
9	80	Cardinal Business Media, Inc.	PO Box 7317	NULL	Philadelphia	PA	19170	(215) 555-1500	Edith	Kelley	3

Query executed successfully. localhost (14.0 RTM) EC2AMAZ-LSJ1ANT\student... AP 00:00:00 114 rows

ready

2.

week6ex.sql - localhost.AP (EC2AMAZ-LSJ1ANT\student (63)) - Microsoft SQL Server Enterprise Manager 172.25.28.212

File Edit View Query Project Debug Tools Window Help

AP Execute Debug

week6ex.sql - local...J1ANT\student (63) Object Explorer

```

SELECT *
FROM Vendors JOIN Invoices
ON Vendors.VendorID = Invoices.VendorID;

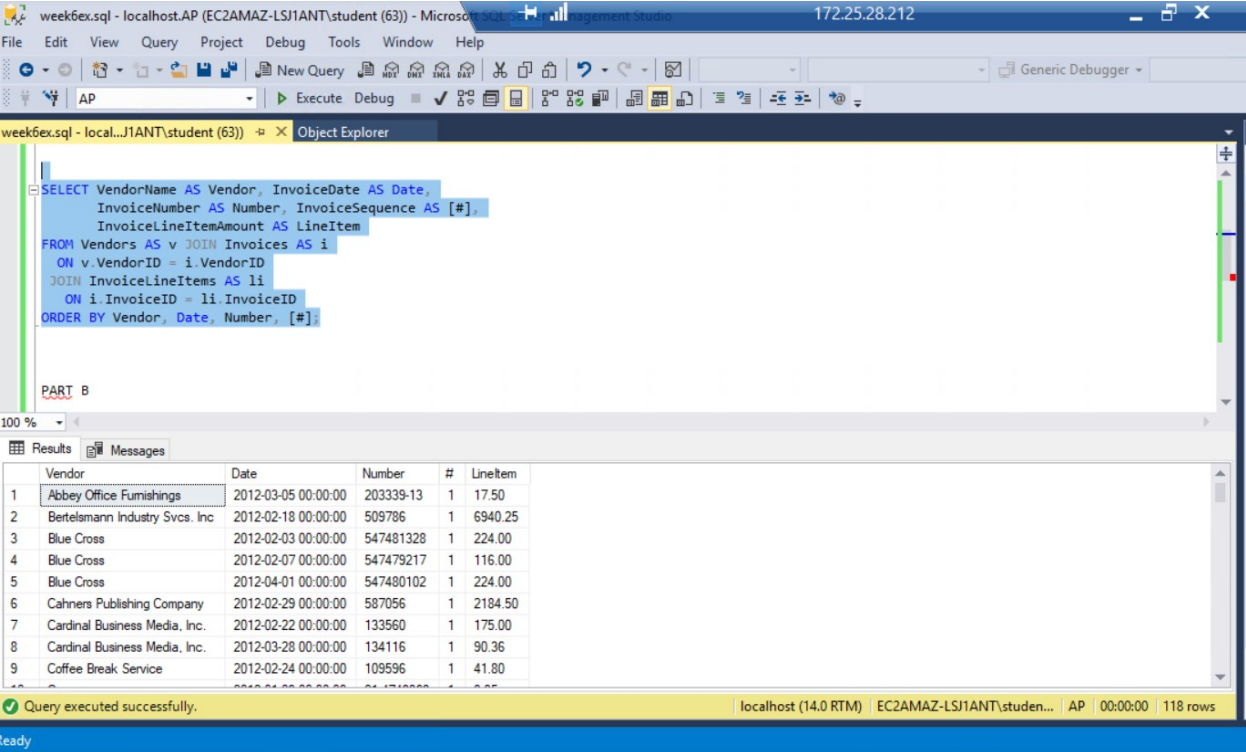
SELECT VendorName, InvoiceNumber, InvoiceDate,
       InvoiceTotal - PaymentTotal - CreditTotal AS Balance
FROM Vendors JOIN Invoices
ON Vendors.VendorID = Invoices.VendorID
WHERE InvoiceTotal - PaymentTotal - CreditTotal > 0
ORDER BY VendorName;
    
```

00 %

Results Messages

	VendorName	InvoiceNumber	InvoiceDate	Balance
1	Blue Cross	547480102	2012-04-01 00:00:00	224.00
2	Cardinal Business Media, Inc.	134116	2012-03-28 00:00:00	90.36
3	Data Reproductions Corp	39104	2012-03-10 00:00:00	85.31
4	Federal Express Corporation	963253264	2012-03-18 00:00:00	52.25
5	Federal Express Corporation	263253268	2012-03-21 00:00:00	59.97
6	Federal Express Corporation	263253270	2012-03-22 00:00:00	67.92
7	Federal Express Corporation	263253273	2012-03-22 00:00:00	30.75
8	Ford Motor Credit Company	9982771	2012-03-24 00:00:00	503.20
9	Ingram	31361833	2012-03-21 00:00:00	579.42

Query executed successfully. localhost (14.0 RTM) EC2AMAZ-LSJ1ANT\student... AP 00:00:00 11 rows

5.  The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The query window displays a SQL query that joins the Vendors, Invoices, and InvoiceLineItems tables. The results pane shows a table with columns: Vendor, Date, Number, #, and LineItem. The status bar at the bottom indicates the query was executed successfully on localhost (14.0 RTM) in 00:00:00, returning 118 rows.

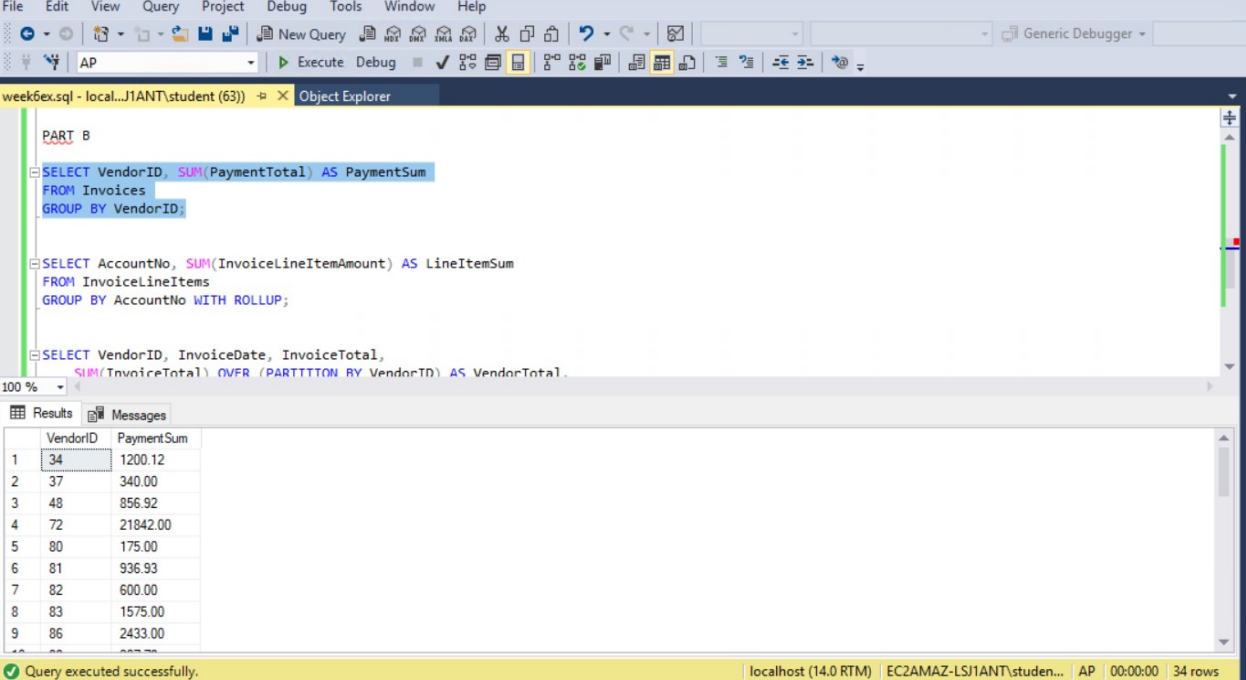
```

SELECT VendorName AS Vendor, InvoiceDate AS Date,
       InvoiceNumber AS Number, InvoiceSequence AS [#],
       InvoiceLineItemAmount AS LineItem
FROM Vendors AS v JOIN Invoices AS i
  ON v.VendorID = i.VendorID
  JOIN InvoiceLineItems AS li
    ON i.InvoiceID = li.InvoiceID
ORDER BY Vendor, Date, Number, [#];

```

	Vendor	Date	Number	#	LineItem
1	Abbey Office Furnishings	2012-03-05 00:00:00	203339-13	1	17.50
2	Bertelsmann Industry Svcs. Inc	2012-02-18 00:00:00	509786	1	6940.25
3	Blue Cross	2012-02-03 00:00:00	547481328	1	224.00
4	Blue Cross	2012-02-07 00:00:00	547479217	1	116.00
5	Blue Cross	2012-04-01 00:00:00	547480102	1	224.00
6	Cahners Publishing Company	2012-02-29 00:00:00	587056	1	2184.50
7	Cardinal Business Media, Inc.	2012-02-22 00:00:00	133560	1	175.00
8	Cardinal Business Media, Inc.	2012-03-28 00:00:00	134116	1	90.36
9	Coffee Break Service	2012-02-24 00:00:00	109596	1	41.80

PART B

1.  The screenshot shows the Microsoft SQL Server Enterprise Manager interface with three queries. The first query calculates the total payment for each vendor. The second query calculates the total line item amount for each account. The third query calculates the total invoice amount for each vendor. The results pane shows the results for the first two queries. The status bar at the bottom indicates the queries were executed successfully on localhost (14.0 RTM) in 00:00:00, returning 34 rows.

```

PART B

SELECT VendorID, SUM(PaymentTotal) AS PaymentSum
FROM Invoices
GROUP BY VendorID;

SELECT AccountNo, SUM(InvoiceLineItemAmount) AS LineItemSum
FROM InvoiceLineItems
GROUP BY AccountNo WITH ROLLUP;

SELECT VendorID, InvoiceDate, InvoiceTotal,
       SUM(InvoiceTotal) OVER (PARTITION BY VendorID) AS VendorTotal

```

	VendorID	PaymentSum
1	34	1200.12
2	37	340.00
3	48	856.92
4	72	2184.00
5	80	175.00
6	81	936.93
7	82	600.00
8	83	1575.00
9	86	2433.00

6.

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File Edit View Query Project Debug Tools Window Help

Object Explorer

```

PART B
SELECT VendorID, SUM(PaymentTotal) AS PaymentSum
FROM Invoices
GROUP BY VendorID;

SELECT AccountNo, SUM(InvoiceLineItemAmount) AS LineItemSum
FROM InvoiceLineItems
GROUP BY AccountNo WITH ROLLUP;

SELECT VendorID, InvoiceDate, InvoiceTotal,
SUM(InvoiceTotal) OVER (PARTITION BY VendorID) AS VendorTotal

```

Results Messages

	AccountNo	LineItemSum
1	150	17.50
2	160	2137.05
3	170	356.48
4	400	148759.97
5	403	6175.12
6	507	1600.00
7	510	564.00
8	520	1750.00
9	521	16.62

Query executed successfully. localhost (14.0 RTM) | EC2AMAZ-LSJ1ANT\student... | AP | 00:00:00 | 22 rows

9.

week6ex.sql - localhost.AP (EC2AMAZ-LSJ1ANT\student (63)) - Microsoft SQL Server Enterprise Edition - 172.25.28.212

File Edit View Query Project Debug Tools Window Help

Object Explorer

```

GROUP BY AccountNo WITH ROLLUP;

SELECT VendorID, InvoiceDate, InvoiceTotal,
SUM(InvoiceTotal) OVER (PARTITION BY VendorID) AS VendorTotal,
COUNT(InvoiceTotal) OVER (PARTITION BY VendorID) AS VendorCount,
AVG(InvoiceTotal) OVER (PARTITION BY VendorID) AS VendorAvg
FROM Invoices;

```

Results Messages

	VendorID	InvoiceDate	InvoiceTotal	VendorTotal	VendorCount	VendorAvg
1	34	2012-01-07 00:00:00	116.54	1200.12	2	600.06
2	34	2012-02-09 00:00:00	1083.58	1200.12	2	600.06
3	37	2012-02-03 00:00:00	224.00	564.00	3	188.00
4	37	2012-02-07 00:00:00	116.00	564.00	3	188.00
5	37	2012-04-01 00:00:00	224.00	564.00	3	188.00
6	48	2012-01-03 00:00:00	856.92	856.92	1	856.92
7	72	2012-02-01 00:00:00	21842.00	21927.31	2	10963.655
8	72	2012-03-10 00:00:00	85.31	21927.31	2	10963.655
9	80	2012-03-28 00:00:00	90.36	265.36	2	132.68

Query executed successfully. localhost (14.0 RTM) | EC2AMAZ-LSJ1ANT\student... | AP | 00:00:00 | 114 rows