ISOM 821 HW

```
--14
select A.CUS_CODE,CUS_BALANCE, sum(LINE_UNITS * LINE_PRICE) AS 'TOTAL PURCHASES',  count(LINE_NUMBER) as 'TOTAL'
from CH07_SaleCo_CUSTOMER A
JOIN CH07_SaleCo_INVOICE B ON A.CUS_CODE = B.CUS_CODE
JOIN CH07_SaleCo_LINE C ON B.INV_NUMBER = C.INV_NUMBER
JOIN CH07_SaleCo_PRODUCT D ON C.P_CODE =  D.P_CODE
group by A.CUS_CODE, CUS_BALANCE
order by A.CUS_CODE;
```

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▦ Results 📄 Messages

	CUS_CODE	CUS_BALANCE	TOTAL PURCHASES	TOTAL
1	10011	0.00	444.0000	6
2	10012	345.86	153.8500	3
3	10014	0.00	422.7700	6
4	10015	0.00	34.9700	2
5	10018	216.55	70.4400	1

```
--15
select A.[CUS_CODE],[CUS_BALANCE],sum([LINE_UNITS]*[LINE_PRICE]) AS 'TOTAL_PURCHASES', COUNT([LINE_NUMBER]) as 'NUMBER_OF_PURCHASES',
LEFT(avg([LINE_UNITS]*[LINE_PRICE]),6) 'AVG_PURCHASES'
from CH07_SaleCo_CUSTOMER A
JOIN CH07_SaleCo_INVOICE B ON A.CUS_CODE = B.CUS_CODE
JOIN CH07_SaleCo_LINE C ON B.INV_NUMBER = C.INV_NUMBER
JOIN CH07_SaleCo_PRODUCT D ON C.P_CODE =  D.P_CODE
group by A.CUS_CODE, CUS_BALANCE
order by A.CUS_CODE;
```

```
--17
```

▦ Results 📄 Messages

	CUS_CODE	CUS_BALANCE	TOTAL_PURCHASES	NUMBER_OF_PURCHASES	AVG_PURCHASES
1	10011	0.00	444.0000	6	74.000
2	10012	345.86	153.8500	3	51.283
3	10014	0.00	422.7700	6	70.461
4	10015	0.00	34.9700	2	17.485
5	10018	216.55	70.4400	1	70.440

```sql
--17
select A.CUS_CODE,B.INV_NUMBER,
sum(LINE_UNITS * LINE_PRICE) as INVOICE_TOTAL
from CH07_SaleCo_CUSTOMER as A
JOIN CH07_SaleCo_INVOICE as B ON A.CUS_CODE = B.CUS_CODE
JOIN CH07_SaleCo_LINE as C ON B.INV_NUMBER = C.INV_NUMBER
group by A.CUS_CODE, B.INV_NUMBER
order by A.CUS_CODE, B.INV_NUMBER;
```

Results | Messages

CUS_CODE	INV_NUMBER	INVOICE_TOTAL
10011	1002	9.9800
10011	1004	34.8700
10011	1008	399.1500
10012	1003	153.8500
10014	1001	24.9400
10014	1006	397.8300
10015	1007	34.9700
10018	1005	70.4400

```sql
--18
select A.[CUS_CODE],sum([LINE_UNITS]*[LINE_PRICE]) AS 'TOTAL_PURCHASES', COUNT(DISTINCT B.[INV_NUMBER]) as 'NUMBER_OF_PURCHASES'
from CH07_SaleCo_CUSTOMER A
JOIN CH07_SaleCo_INVOICE B ON A.CUS_CODE = B.CUS_CODE
JOIN CH07_SaleCo_LINE C ON B.INV_NUMBER = C.INV_NUMBER
JOIN CH07_SaleCo_PRODUCT D ON C.P_CODE =  D.P_CODE
group by A.CUS_CODE
order by A.CUS_CODE;
```

Results | Messages

	CUS_CODE	TOTAL_PURCHASES	NUMBER_OF_PURCHASES
1	10011	444.0000	3
2	10012	153.8500	1
3	10014	422.7700	2
4	10015	34.9700	1
5	10018	70.4400	1

```
--Problem 19
SELECT (select count(inv_number) from [dbo].[CH07_SaleCo_INVOICE]) as 'Total Invoices',
(Select SUM(LINE_UNITS*LINE_PRICE) FROM [dbo].[CH07_SaleCo_LINE]) as 'Total Sales',
min(tp) AS Minimum_Customer_Purchases,
max(tp) AS Maximum_Customer_Purchases,
avg(tp) AS Average_Customer_Purchases
FROM    (SELECT C.CUS_CODE, SUM(LINE_UNITS*LINE_PRICE) as tp
         FROM [dbo].[CH07_SaleCo_LINE] L JOIN [dbo].[CH07_SaleCo_INVOICE] I on L.INV_NUMBER = I.INV_NUMBER JOIN [dbo].[CH07_SaleCo_CUSTOMER] C
         ON C.CUS_CODE = I.CUS_CODE
         GROUP BY C.CUS_CODE) _
```

Results | Messages

	Total Invoices	Total Sales	Minimum_Customer_Purchases	Maximum_Customer_Purchases	Average_Customer_Purchases
1	8	1126.0300	34.9700	444.0000	225.206000

```
--Problem 20
SELECT C.CUS_CODE, CUS_BALANCE
FROM CH07_SaleCo_CUSTOMER C JOIN CH07_SaleCo_INVOICE I ON C.CUS_CODE=I.CUS_CODE
     GROUP BY C.CUS_CODE, CUS_BALANCE
     ORDER BY CUS_CODE;

--Problem 21
SELECT Left(MIN(C.CUS_BALANCE),1) AS "Minimum Balance", MAX(C.CUS_BALANCE) AS "Maximum
Left(AVG(C.CUS_BALANCE),6) AS "Average Balance"
```

Results | Messages

CUS_CODE	CUS_BALANCE
10011	0.00
10012	345.86
10014	0.00
10015	0.00
10018	216.55

```
--Problem 21
SELECT Left(MIN(C.CUS_BALANCE),1) AS "Minimum Balance", MAX(C.CUS_BALANCE) AS "Maximum Balance",
Left(AVG(C.CUS_BALANCE),6) AS "Average Balance"
FROM CH07_SaleCo_CUSTOMER C
WHERE C.CUS_CODE in (Select Cus_code from [dbo].[CH07_SaleCo_INVOICE])
```

Results | Messages

Minimum Balance	Maximum Balance	Average Balance
0	345.86	112.48

```sql
--Problem 22
SELECT SUM(CUS_BALANCE) AS "Total balance", MIN(CUS_BALANCE) AS "Minimum balance",
MAX(CUS_BALANCE) AS "Maximum balance", LEFT (AVG(CUS_BALANCE),6) AS "Average balance"
FROM CH07_SaleCo_CUSTOMER

--Problem 24
SELECT SUM(CUS_BALANCE) AS "Total balance", MIN(CUS_BALANCE) AS "Minimum balance",
MAX(CUS_BALANCE) AS "Maximum balance", LEFT (AVG(CUS_BALANCE),6) AS "Average balance"
FROM CH07_SaleCo_CUSTOMER
```

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⊞ Results | 📄 Messages

Total balance	Minimum balance	Maximum balance	Average balance
2089.28	0.00	768.93	208.92

```sql
--Problem 24
SELECT SUM(CUS_BALANCE) AS "Total balance", MIN(CUS_BALANCE) AS "Minimum balance",
MAX(CUS_BALANCE) AS "Maximum balance", LEFT (AVG(CUS_BALANCE),6) AS "Average balance"
FROM CH07_SaleCo_CUSTOMER
WHERE CUS_CODE NOT IN
        (SELECT CUS_CODE
        FROM CH07_SaleCo_INVOICE);
```

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Results | 📄 Messages

Total balance	Minimum balance	Maximum balance	Average balance
1526.87	0.00	768.93	305.37