

PRACTICAL NO 2:

AIM:WRITE AND EXECUTE SQL AGGREGATION QUERIES FOR DATA WAREHOUSE.

SQL> select count(*) from sales;

```
COUNT(*)
-----
    918843
```

SQL> select count(*) from products;

```
COUNT(*)
-----
        72
```

SQL> select * from sales
2 where rownum<10;

PROD_ID	CUST_ID	TIME_ID	CHANNEL_ID	PROMO_ID	QUANTITY_SOLD	AMOUNT_SOLD
13	987	10-JAN-98	3	999	1	1232.16
13	1660	10-JAN-98	3	999	1	1232.16
13	1762	10-JAN-98	3	999	1	1232.16
13	1843	10-JAN-98	3	999	1	1232.16
13	1948	10-JAN-98	3	999	1	1232.16
13	2273	10-JAN-98	3	999	1	1232.16
13	2380	10-JAN-98	3	999	1	1232.16
13	2683	10-JAN-98	3	999	1	1232.16
13	2865	10-JAN-98	3	999	1	1232.16

9 rows selected.

QUERY 1:

SQL> SELECT channels.channel_desc, calendar_month_desc,
2 countries.country_iso_code,
3 TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES\$
4 FROM sales, customers, times, channels, countries
5 WHERE sales.time_id=times.time_id
6 AND sales.cust_id=customers.cust_id
7 AND customers.country_id = countries.country_id

```

8  AND sales.channel_id = channels.channel_id
9  AND channels.channel_desc IN ('Direct Sales', 'Internet')
10 AND times.calendar_month_desc IN ('2000-09', '2000-10')
11 AND countries.country_iso_code IN ('GB', 'US')
12 GROUP BY
13 ROLLUP(channels.channel_desc, calendar_month_desc,
14 countries.country_iso_code);

```

CHANNEL_DESC	CALENDAR	CO	SALES\$
Internet	2000-09	GB	16,569
Internet	2000-09	US	124,224
Internet	2000-09		140,793
Internet	2000-10	GB	14,539
Internet	2000-10	US	137,054
Internet	2000-10		151,593
Internet			292,387
Direct Sales	2000-09	GB	85,223
Direct Sales	2000-09	US	638,201
Direct Sales	2000-09		723,424
Direct Sales	2000-10	GB	91,925

CHANNEL_DESC	CALENDAR	CO	SALES\$
Direct Sales	2000-10	US	682,297
Direct Sales	2000-10		774,222
Direct Sales			1,497,646
			1,790,032

15 rows selected.

QUERY 2:

```

SQL> SELECT channels.channel_desc, calendar_month_desc,
2      countries.country_iso_code,
3      TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
4      FROM sales, customers, times, channels, countries
5      WHERE sales.time_id=times.time_id
6      AND sales.cust_id=customers.cust_id
7      AND customers.country_id = countries.country_id
8      AND sales.channel_id = channels.channel_id
9      AND channels.channel_desc IN ('Direct Sales', 'Internet')
10     AND times.calendar_month_desc IN ('2000-09', '2000-10')
11     AND countries.country_iso_code IN ('GB', 'US')
12     GROUP BY
13     CUBE(channels.channel_desc,
calendar_month_desc,countries.country_iso_code)
14     ORDER BY channels.channel_desc;

```

CHANNEL_DESC	CALENDAR	CO	SALES\$
--------------	----------	----	---------

Direct Sales	2000-09	GB	85,223
Direct Sales	2000-09	US	638,201
Direct Sales	2000-09		723,424
Direct Sales	2000-10	GB	91,925
Direct Sales	2000-10	US	682,297
Direct Sales	2000-10		774,222
Direct Sales		GB	177,148
Direct Sales		US	1,320,497
Direct Sales			1,497,646
Internet	2000-09	GB	16,569
Internet	2000-09	US	124,224

CHANNEL_DESC	CALENDAR	CO	SALES\$
Internet	2000-09		140,793
Internet	2000-10	GB	14,539
Internet	2000-10	US	137,054
Internet	2000-10		151,593
Internet		GB	31,109
Internet		US	261,278
Internet			292,387
	2000-09	GB	101,792
	2000-09	US	762,425
	2000-09		864,217
	2000-10	GB	106,465

CHANNEL_DESC	CALENDAR	CO	SALES\$
	2000-10	US	819,351
	2000-10		925,815
		GB	208,257
		US	1,581,775
			1,790,032

27 rows selected.

QUERY 3:

```
SQL> SELECT channels.channel_desc,countries.country_iso_code,
2  TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
3  FROM sales, customers, times, channels, countries
4  WHERE sales.time_id=times.time_id
5  AND sales.cust_id=customers.cust_id
6  AND customers.country_id = countries.country_id
7  AND sales.channel_id = channels.channel_id
8  AND channels.channel_desc IN ('Direct Sales', 'Internet')
9  AND times.calendar_month_desc IN ('2000-09')
10 AND countries.country_iso_code IN ('FR', 'US')
11 GROUP BY
12
ROLLUP(channels.channel_desc,calendar_month_desc,countries.country_iso_co
de)
13 ORDER BY channels.channel_desc;
```

CHANNEL_DESC	CO	SALES\$
Direct Sales	FR	61,202
Direct Sales	US	638,201
Direct Sales		699,403
Direct Sales		699,403
Internet	FR	9,597
Internet	US	124,224
Internet		133,821
Internet		133,821
		833,224

9 rows selected.

QUERY 4:

```
SQL> SELECT channels.channel_desc, calendar_month_desc,
2 countries.country_iso_code,
3 TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
4 FROM sales, customers, times, channels, countries
5 WHERE sales.time_id=times.time_id
6 AND sales.cust_id=customers.cust_id
7 AND customers.country_id = countries.country_id
8 AND sales.channel_id = channels.channel_id
9 AND channels.channel_desc IN ('Direct Sales', 'Internet')
10 AND times.calendar_month_desc IN ('2000-09', '2000-10')
11 AND countries.country_iso_code IN ('GB', 'US')
12 GROUP BY
13 channel_desc,
14 ROLLUP(
15 countries.country_iso_code, calendar_month_desc);
```

CHANNEL_DESC	CALENDAR	CO	SALES\$
Internet	2000-09	GB	16,569
Internet	2000-10	GB	14,539
Internet		GB	31,109
Internet	2000-09	US	124,224
Internet	2000-10	US	137,054
Internet		US	261,278
Internet			292,387
Direct Sales	2000-09	GB	85,223
Direct Sales	2000-10	GB	91,925
Direct Sales		GB	177,148
Direct Sales	2000-09	US	638,201

CHANNEL_DESC	CALENDAR	CO	SALES\$
Direct Sales	2000-10	US	682,297
Direct Sales		US	1,320,497
Direct Sales			1,497,646

14 rows selected.

```
SQL> SELECT channels.channel_desc, calendar_month_desc,
        countries.country_iso_code,
        TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
FROM sales, customers, times, channels, countries
WHERE sales.time_id=times.time_id
AND sales.cust_id=customers.cust_id
AND customers.country_id = countries.country_id
AND sales.channel_id = channels.channel_id
AND channels.channel_desc IN ('Direct Sales', 'Internet')
AND times.calendar_month_desc IN ('2000-09', '2000-10') AND
countries.country_iso_code IN ('GB', 'US')
GROUP BY
country_iso_code,
ROLLUP(
channels.channel_desc, calendar_month_desc
);
```

CHANNEL_DESC	CALENDAR	CO	SALES\$
Internet	2000-09	GB	16,569
Internet	2000-10	GB	14,539
Internet		GB	31,109
Direct Sales	2000-09	GB	85,223
Direct Sales	2000-10	GB	91,925
Direct Sales		GB	177,148
		GB	208,257
Internet	2000-09	US	124,224
Internet	2000-10	US	137,054
Internet		US	261,278
Direct Sales	2000-09	US	638,201
CHANNEL_DESC	CALENDAR	CO	SALES\$
Direct Sales	2000-10	US	682,297
Direct Sales		US	1,320,497
		US	1,581,775

14 rows selected.

QUERY 5:

```
SELECT channels.channel_desc, calendar_month_desc,
        countries.country_iso_code,
        TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
FROM sales, customers, times, channels, countries
WHERE sales.time_id=times.time_id
AND sales.cust_id=customers.cust_id
AND customers.country_id = countries.country_id
AND sales.channel_id = channels.channel_id
AND channels.channel_desc IN ('Direct Sales', 'Internet')
AND times.calendar_month_desc IN ('2000-09', '2000-10') AND
countries.country_iso_code IN ('GB', 'US')
GROUP BY
channel_desc,
```

CUBE(countries.country_iso_code, calendar_month_desc);

CHANNEL_DESC	CALENDAR	CO	SALES\$
Internet			292,387
Internet	2000-09		140,793
Internet	2000-10		151,593
Internet		GB	31,109
Internet	2000-09	GB	16,569
Internet	2000-10	GB	14,539
Internet		US	261,278
Internet	2000-09	US	124,224
Internet	2000-10	US	137,054
Direct Sales			1,497,646
Direct Sales	2000-09		723,424

CHANNEL_DESC	CALENDAR	CO	SALES\$
Direct Sales	2000-10		774,222
Direct Sales		GB	177,148
Direct Sales	2000-09	GB	85,223
Direct Sales	2000-10	GB	91,925
Direct Sales		US	1,320,497
Direct Sales	2000-09	US	638,201
Direct Sales	2000-10	US	682,297

18 rows selected.

QUERY 6:

```
SQL> SELECT channels.channel_desc, calendar_month_desc,
        countries.country_iso_code,
        GROUPING(channel_desc) as CH,
        GROUPING(calendar_month_desc) as MO,
        GROUPING(country_iso_code) as CO,
        TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
FROM sales, customers, times, channels, countries
WHERE sales.time_id=times.time_id
AND sales.cust_id=customers.cust_id
AND customers.country_id = countries.country_id
AND sales.channel_id = channels.channel_id
AND channels.channel_desc IN ('Direct Sales', 'Internet')
AND times.calendar_month_desc IN ('2000-09', '2000-10') AND
countries.country_iso_code IN ('GB', 'US')
GROUP BY
ROLLUP(channels.channel_desc, calendar_month_desc,
countries.country_iso_code);
```

CHANNEL_DESC	CALENDAR	CO	CH	MO	CO SALES\$
Internet	2000-09	GB	0	0	0
16,569					

Internet	2000-09	US	0	0	0
124,224					
Internet	2000-09		0	0	1
140,793					
Internet	2000-10	GB	0	0	0
14,539					
Internet	2000-10	US	0	0	0
137,054					
Internet	2000-10		0	0	1
151,593					
Internet			0	1	1
292,387					
Direct Sales	2000-09	GB	0	0	0
85,223					
Direct Sales	2000-09	US	0	0	0
638,201					
Direct Sales	2000-09		0	0	1
723,424					
Direct Sales	2000-10	GB	0	0	0
91,925					
CHANNEL_DESC	CALENDAR	CO	CH	MO	CO SALES\$
-----	-----	--	-----	-----	-----

Direct Sales	2000-10	US	0	0	0
682,297					
Direct Sales	2000-10		0	0	1
774,222					
Direct Sales			0	1	1
1,497,646					
			1	1	1
1,790,032					

15 rows selected.

QUERY 7:

```

SELECT channels.channel_desc, calendar_month_desc,
       countries.country_iso_code,
       TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
FROM sales, customers, times, channels, countries
WHERE sales.time_id=times.time_id
AND sales.cust_id=customers.cust_id
AND customers.country_id = countries.country_id
AND sales.channel_id = channels.channel_id
AND channels.channel_desc IN ('Direct Sales', 'Internet')
AND times.calendar_month_desc IN ('2000-09', '2000-10') AND
countries.country_iso_code IN ('GB', 'US')
GROUP BY
GROUPING SETS((channels.channel_desc, calendar_month_desc,
               countries.country_iso_code),(channel_desc,
               country_iso_code),(calendar_month_desc, country_iso_code));

```

CHANNEL_DESC	CALENDAR	CO	SALES\$
Internet	2000-09	GB	16,569
Direct Sales	2000-09	GB	85,223
Internet	2000-09	US	124,224
Direct Sales	2000-09	US	638,201
Internet	2000-10	GB	14,539
Direct Sales	2000-10	GB	91,925
Internet	2000-10	US	137,054
Direct Sales	2000-10	US	682,297
	2000-09	GB	101,792
	2000-09	US	762,425
	2000-10	GB	106,465

CHANNEL_DESC	CALENDAR	CO	SALES\$
	2000-10	US	819,351
Direct Sales		GB	177,148
Internet		GB	31,109
Direct Sales		US	1,320,497
Internet		US	261,278

16 rows selected.

QUERY 8:

```
SQL> SELECT
times.calendar_month_desc,times.calendar_quarter_number,times.calendar_year,
SUM(AMOUNT_SOLD) AS SALES
FROM sales, customers, times, channels, countries
WHERE sales.time_id=times.time_id
AND sales.cust_id=customers.cust_id
AND customers.country_id = countries.country_id
AND sales.channel_id = channels.channel_id
AND channels.channel_desc IN ('Direct Sales', 'Internet')
AND times.calendar_year='1999'
AND countries.country_iso_code IN ('GB', 'US')
GROUP BY
```

```
ROLLUP(times.calendar_year,times.calendar_quarter_number,times.calendar_month_desc);
```

CALENDAR	CALENDAR_QUARTER_NUMBER	CALENDAR_YEAR	SALES
1999-01	1	1999	974627.95
1999-02	1	1999	1089255.92
1999-03	1	1999	754026.7
	1	1999	2817910.57
1999-04	2	1999	708060.57
1999-05	2	1999	818055.52
1999-06	2	1999	729677.52
	2	1999	2255793.61

1999-07	3	1999	893452.47
1999-08	3	1999	883460.92
1999-09	3	1999	923577.01

CALENDAR	CALENDAR_QUARTER_NUMBER	CALENDAR_YEAR	SALES
	3	1999	2700490.4
1999-10	4	1999	715831.36
1999-11	4	1999	742248.42
1999-12	4	1999	841572.17
	4	1999	2299651.95
		1999	10073846.5
			10073846.5

18 rows selected.

QUERY 9:

```

SELECT channels.channel_total, channels.channel_class,
countries.country_iso_code,countries.country_region,
TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
FROM sales, customers, times, channels, countries
WHERE sales.time_id=times.time_id
AND sales.cust_id=customers.cust_id
AND customers.country_id = countries.country_id
AND sales.channel_id = channels.channel_id
AND times.calendar_month_desc IN ('2001-09', '2001-10')
AND countries.country_iso_code IN ('GB', 'US')
GROUP BY
ROLLUP(channel_total,
channel_class),ROLLUP(country_region,country_iso_code);

```

CHANNEL_TOTAL	CHANNEL_CLASS	CO	COUNTRY_REGION	SALES\$
		GB	Europe	321,244
			Europe	321,244
		US	Americas	2,603,473
			Americas	2,603,473
				2,924,717
Channel total		GB	Europe	321,244
Channel total			Europe	321,244
Channel total		US	Americas	2,603,473
Channel total			Americas	2,603,473
Channel total				2,924,717
Channel total	Direct	GB	Europe	168,161
Channel total				
Channel total	Direct		Europe	168,161
Channel total	Direct	US	Americas	1,187,918
Channel total	Direct		Americas	1,187,918
Channel total	Direct			1,356,079
Channel total	Others	GB	Europe	77,265
Channel total	Others		Europe	77,265

Channel total Others	US Americas	729,606
Channel total Others	Americas	729,606
Channel total Others		806,872
Channel total Indirect	GB Europe	75,817
Channel total Indirect	Europe	75,817

CHANNEL_TOTAL	CHANNEL_CLASS	CO COUNTRY_REGION	SALES\$
Channel total Indirect		US Americas	685,949
Channel total Indirect		Americas	685,949
Channel total Indirect			761,766

25 rows selected.

QUERY 10:

```
SQL> SELECT deptno, job, SUM(sal)
FROM emp
GROUP BY CUBE(deptno, job);
```

DEPTNO	JOB	SUM(SAL)
		29025
	CLERK	4150
	ANALYST	6000
	MANAGER	8275
	SALESMAN	5600
	PRESIDENT	5000
10		8750
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20		10875

DEPTNO	JOB	SUM(SAL)
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
30		9400
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600

18 rows selected.

QUERY 11:

```
SQL> SELECT channels.channel_desc, calendar_month_desc,
       countries.country_name,
       TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
FROM sales, customers, times, channels, countries
```

```

WHERE country_name like 'U%'
AND sales.time_id=times.time_id
AND sales.cust_id=customers.cust_id
AND customers.country_id = countries.country_id
AND sales.channel_id = channels.channel_id
AND channels.channel_desc IN ('Direct Sales', 'Internet')
AND times.calendar_month_desc IN ('2000-09', '2000-10') AND
countries.country_iso_code IN ('GB', 'US')
GROUP BY
ROLLUP(channels.channel_desc, calendar_month_desc,
countries.country_name);

```

CHANNEL_DESC	CALENDAR	COUNTRY_NAME	SALES\$
Internet	2000-09	United Kingdom	16,569
Internet	2000-09	United States of America	124,224
Internet	2000-09		140,793
Internet	2000-10	United Kingdom	14,539
Internet	2000-10	United States of America	137,054
Internet	2000-10		151,593
Direct Sales	2000-09	United Kingdom	85,223
Direct Sales	2000-09	United States of America	638,201
Direct Sales	2000-09		723,424
Direct Sales	2000-10	United Kingdo	91,925
Direct Sales	2000-10	United States of America	682,297
Direct Sales	2000-10		774,222
Direct Sales			1,497,646
			1,790,032

15 rows selected.

QUERY 12:

```

SQL> SELECT
  2  ch.channel_desc,
  3  t.calendar_month_desc,
  4  co.country_iso_code,
  5  SUM(s.amount_sold) sum_amount_sold,
  6  GROUPING_ID(
  7  ch.channel_desc,
  8  t.calendar_month_desc,
  9  co.country_iso_code) grouping_id
10 FROM
11 sales s,
12 customers cu,
13 times t,
14 channels ch,
15 countries co
16 WHERE
17 s.time_id=t.time_id AND
18 s.cust_id=cu.cust_id AND
19 cu.country_id = co.country_id AND
20 s.channel_id = ch.channel_id AND
21 ch.channel_desc IN ('Direct Sales', 'Internet') AND
22 t.calendar_month_desc IN ('2001-09', '2001-10') AND
23 co.country_iso_code IN ('GB', 'US')
24 GROUP BY
25 ROLLUP(
26 ch.channel_desc,
27 t.calendar_month_desc,
28 co.country_iso_code);

```

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD	GROUPING_ID
-----	-----	--	-----	-----
Internet	2001-09	GB	36806.73	0
Internet	2001-09	US	299621.96	0
Internet	2001-09		336428.69	1
Internet	2001-10	GB	39010.76	0
Internet	2001-10	US	386326.55	0
Internet	2001-10		425337.31	1
Internet			761766	3
Direct Sales	2001-09	GB	92865.04	0
Direct Sales	2001-09	US	621197.94	0
Direct Sales	2001-09		714062.98	1
Direct Sales	2001-10	GB	75296.44	0
CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD	GROUPING_ID
-----	-----	--	-----	-----
Direct Sales	2001-10	US	566719.8	0
Direct Sales	2001-10		642016.24	1
Direct Sales			1356079.22	3
			2117845.22	7

15 rows selected.

 SELECT

```

        ch.channel_desc,
        t.calendar_month_desc,
        co.country_iso_code,
        SUM(s.amount_sold) sum_amount_sold
    FROM
    sales s,
    customers cu,
    times t,
    channels ch,
    countries co
    WHERE
    s.time_id=t.time_id AND
    s.cust_id=cu.cust_id AND
    cu.country_id = co.country_id AND
    s.channel_id = ch.channel_id AND
    ch.channel_desc IN ('Direct Sales', 'Internet') AND
    t.calendar_month_desc IN ('2001-09', '2001-10') AND
    co.country_iso_code IN ('GB', 'US')
    GROUP BY
    ROLLUP(
    ch.channel_desc,
    t.calendar_month_desc,
    co.country_iso_code),
    ROLLUP(
    ch.channel_desc,
    t.calendar_month_desc,
    co.country_iso_code)
    ORDER BY group_id();

```

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
-----	-----	--	-----
Internet	2001-10		425337.31
Direct Sales	2001-10		642016.24
Direct Sales	2001-09		714062.98
Internet	2001-09		336428.69
Internet	2001-09	GB	36806.73
Internet	2001-09	US	299621.96
Internet	2001-10	GB	39010.76
Internet	2001-10	US	386326.55
Direct Sales	2001-09	GB	92865.04
Direct Sales	2001-09	US	621197.94
Direct Sales	2001-10	GB	75296.44
CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
-----	-----	--	-----
Direct Sales	2001-10	US	566719.8
Internet			761766
Direct Sales			1356079.22
			2117845.22
Internet			761766
Direct Sales			1356079.22
Internet	2001-10		425337.31
Direct Sales	2001-10		642016.24

Direct Sales	2001-09		714062.98
Internet	2001-09		336428.69
Direct Sales	2001-10	US	566719.8

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
-----	-----	--	-----
Internet	2001-09	US	299621.96
Internet	2001-10	GB	39010.76
Internet	2001-10	US	386326.55
Direct Sales	2001-09	GB	92865.04
Direct Sales	2001-09	US	621197.94
Direct Sales	2001-10	GB	75296.44
Internet	2001-09	GB	36806.73
Internet			761766
Direct Sales			1356079.22
Internet	2001-10		425337.31
Direct Sales	2001-10		642016.24

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
-----	-----	--	-----
Direct Sales	2001-09		714062.98
Internet	2001-09		336428.69
Internet	2001-09	GB	36806.73
Internet	2001-09	US	299621.96
Internet	2001-10	GB	39010.76
Internet	2001-10	US	386326.55
Direct Sales	2001-09	GB	92865.04
Direct Sales	2001-09	US	621197.94
Direct Sales	2001-10	GB	75296.44
Direct Sales	2001-10	US	566719.8
Internet	2001-09	GB	36806.73

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
-----	-----	--	-----
Internet	2001-09	US	299621.96
Internet	2001-10	GB	39010.76
Direct Sales	2001-10	US	566719.8
Internet	2001-10		425337.31
Internet	2001-10	US	386326.55
Direct Sales	2001-09		714062.98
Internet	2001-09		336428.69
Direct Sales	2001-10	GB	75296.44
Direct Sales	2001-09	US	621197.94
Direct Sales	2001-09	GB	92865.04
Direct Sales	2001-10		642016.24

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
-----	-----	--	-----
Internet	2001-09		336428.69
Direct Sales	2001-09		714062.98
Internet	2001-10		425337.31
Direct Sales	2001-10		642016.24
Direct Sales	2001-10	US	566719.8
Direct Sales	2001-10	GB	75296.44

Direct Sales	2001-09	US	621197.94
Direct Sales	2001-09	GB	92865.04
Internet	2001-10	US	386326.55
Internet	2001-10	GB	39010.76
Internet	2001-09	US	299621.96

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
-----	-----	--	-----
Internet	2001-09	GB	36806.73
Direct Sales	2001-10	US	566719.8
Internet	2001-09	GB	36806.73
Internet	2001-09	US	299621.96
Internet	2001-10	GB	39010.76
Internet	2001-10	US	386326.55
Direct Sales	2001-09	GB	92865.04
Direct Sales	2001-09	US	621197.94
Direct Sales	2001-10	GB	75296.44
Direct Sales	2001-10	US	566719.8
Internet	2001-09	US	299621.96

CHANNEL_DESC	CALENDAR	CO	SUM_AMOUNT_SOLD
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Internet	2001-10	GB	39010.76
Internet	2001-10	US	386326.55
Direct Sales	2001-09	GB	92865.04
Direct Sales	2001-09	US	621197.94
Direct Sales	2001-10	GB	75296.44
Internet	2001-09	GB	36806.73

83 rows selected.

