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;</pre>

PROD_ID AMOUNT_SOLD	CUST_ID TIME_ID	CHANNEL_ID	PROMO_ID	QUANTITY_SOLD
12	987 10-JAN-98	3	999	1
13 1232.16	987 IU-JAN-98	3	999	1
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,

- countries.country_iso_code,
 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')
 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 US 151,593
                                          140,793
14,539
137,054
151,593
292,387
85,223
638,201
Internet
Direct Sales 2000-09 GB
Direct Sales 2000-09 US
Direct Sales 2000-09
Direct Sales 2000-10 GB
                                             723,424
                                         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,
          countries.country_iso_code,
          TO_CHAR(SUM(amount_sold), '9,999,999,999') SALES$
  3
  4
          FROM sales, customers, times, channels, countries
  5
          WHERE sales.time id=times.time id
          AND sales.cust_id=customers.cust_id
  6
  7
          AND customers.country_id = countries.country_id
          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', '2000-10')
 10
          AND countries.country iso code IN ('GB', 'US')
 11
 12
          GROUP BY
          CUBE(channels.channel desc,
calendar_month_desc,countries.country_iso_code)
          ORDER BY channels.channel_desc;
 14
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
                  2000-10
2000-10
Direct Sales
                             GB
                                      91,925
Direct Sales
                                       682,297
                             US
Direct Sales
                                       774,222
                    2000-10
Direct Sales
                             GB
                                     177,148
Direct Sales
                             US
                                     1,320,497
Direct Sales
                                     1,497,646
                    2000-09
                             GB
                                      16,569
Internet
Internet
                    2000-09
                             US
                                       124,224
CHANNEL_DESC CALENDAR CO SALES$
                   -----
                            140,793
GB 14,539
US 137,054
Internet
                    2000-09
Internet
                   2000-10 GB
                   2000-10 US
Internet
Internet
                    2000-10
                                     151,593
                             GB
Internet
                                       31,109
                             US
                                      261,278
Internet
                                       292,387
Internet
                    2000-09
                             GB
                                      101,792
                    2000-09
                             US
                                       762,425
                    2000-09
                                       864,217
                    2000-10
                            GB
                                       106,465
CHANNEL_DESC
                    CALENDAR CO SALES$
------
                               819,351
925,815
208,257
                    2000-10 US
                    2000-10
                             GB
                             US 1,581,775
                                     1,790,032
27 rows selected.
OUERY 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
```

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,
  countries.country_iso_code,
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
                                            292,387
85,223
91,925
177,148
Internet
Direct Sales 2000-09 GB
Direct Sales 2000-10 GB
Direct Sales
Direct Sales
                                   GB
Direct Sales
                       2000-09 US
                                               638,201
CHANNEL_DESC CALENDAR CO SALES$
______
Direct Sales 2000-10 US 682,297
                                          1,320,497
                         US
Direct Sales
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 Internet	2000-09		292,387 140,793			
Internet	2000-09		151,593			
Internet		GB				
Internet	2000-09	GB	_			
Internet Internet	2000-10	GB US	-			
Internet	2000-09	US				
Internet	2000-10	US	•			
Direct Sales Direct Sales	2000 00		1,497,646			
DILIGUE Sales	2000-09		723,424			
CHANNEL_DESC	CALENDAR	C0	SALES\$			
Direct Sales	2000-10		774,222			
Direct Sales	2000 00	GB	•			
Direct Sales Direct Sales	2000-09 2000-10	GB GB	•			
Direct Sales	2000 20	US				
Direct Sales	2000-09	US				
Direct Sales	2000-10	US	682,297			
18 rows selected.						
QUERY 6:						
SQL> SELECT channels.			calendar_month_d	esc,		
countries.country						
GROUPING(channel GROUPING(calenda						
GROUPING(country						
			999,999,999') SALE	:S\$		
			channels, countri	.es		
WHERE sales.time_ AND sales.cust ic	_					
			untries.country_id	I		
AND sales.channel						
	_		('Direct Sales', '	•		
AND times.calendar countries.country			•	000-10') AND		
GROUP BY	_130_Code .	TIN ((66 , 03)			
ROLLUP(channels.ch	annel_des	c, (alendar_month_des	С,		
countries.country_	iso_code)	;				
CHANNEL_DESC	CALENDAR	со	СН	МО	CO	SALES\$
Tatanat	2000 00		^			
Internet 16,569	2000-09	GB	0	0	0	

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 91,925	2000-10	GB	0	0	0		
CHANNEL_DESC	CALENDAR	CO	СН	МО	СО	SALES\$	
Direct Sales 682,297	2000-10	US	0	0	0		
Direct Sales	2000-10		0	0	1		
774,222 Direct Sales			0	1	1		
1,497,646			1	1	1		
1,790,032			1	1	1		
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, country_iso_code),(calendar_month_desc, country_iso_code));							

CHANNEL_DESC	CALENDAR		SALES\$		
Internet Direct Sales	2000-09 2000-09 2000-09 2000-10 2000-10 2000-10 2000-10 2000-09 2000-09 2000-10	GB GB US US GB US US GB US GB	85,223 124,224 638,201 14,539 91,925 137,054 682,297		
CHANNEL_DESC	CALENDAR	СО	SALES\$		
Direct Sales Internet Direct Sales Internet	2000-10	US GB GB US US	31,109 1,320,497		
16 rows selected.					
QUERY 8:					
<pre>SQL> SELECT times.calendar_month_desc,times.calendar_quarter_number,times.calendar_ye ar, 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')</pre>					
GROUP BY ROLLUP(times.calendar_year,times.calendar_quarter_number,times.calendar_m onth_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 1999-08 1999-09		3 3 3			893452.47 883460.92 923577.01	
	CAL	ENDAR_QUARTER_NUMBER	CALE			
1999-10		3		1999	2700490.4 715831.36	
1999-10		4			742248.42	
1999-12		4			841572.17	
		4			2299651.95	
				1999	10073846.5	
					10073846.5	
18 rows s	elec	ted.				
TO_CHAR(SUFROM sales WHERE sale AND sales AND custom AND sales AND times AND countr GROUP BY ROLLUP(char channel_ci	.coun UM(am s, cu es.ti .cust merschan .cale ries. annel	ROLLUP(country_regi	es.co 99,99 nels, d es.co annel '2001 ('GB'	untry_regings of the second se	ion, 5 31-10') _code);	
CHANNEL_T	OTAL	CHANNEL_CLASS	CO	COUNTRY_R	EGION	SALES\$
			GB	Europe		321,244
				Europe		321,244
			US	-		
				Americas		2,603,473
				Americas Americas		2,603,473 2,603,473
Channal +	0+01		CP.	Americas		2,603,473 2,603,473 2,924,717
Channel to			GB	Americas Europe		2,603,473 2,603,473 2,924,717 321,244
Channel t	otal			Americas Europe Europe		2,603,473 2,603,473 2,924,717 321,244 321,244
Channel to	otal otal			Americas Europe Europe Americas		2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473
Channel to Channel to Channel to the	otal otal otal			Americas Europe Europe		2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473 2,603,473
Channel to	otal otal otal otal	Direct	US	Americas Europe Europe Americas		2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473
Channel to	otal otal otal otal otal	Direct CHANNEL_CLASS	US GB	Americas Europe Europe Americas Americas	EGION	2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473 2,603,473 2,924,717
Channel to Channel to Channel to Channel to CHANNEL_To	otal otal otal otal otal	CHANNEL_CLASS	US GB	Americas Europe Europe Americas Americas Europe COUNTRY_R	EGION	2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473 2,603,473 2,924,717 168,161 SALES\$
Channel to	otal otal otal otal otal	CHANNEL_CLASSDirect	US GB CO	Americas Europe Europe Americas Americas Europe	EGION	2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473 2,603,473 2,924,717 168,161 SALES\$
Channel to Channel to Channel to Channel to CHANNEL_To Channel to	otal otal otal otal otal otal otal otal	CHANNEL_CLASS Direct Direct	US GB CO	Americas Europe Europe Americas Americas Europe COUNTRY_R Europe	EGION	2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473 2,603,473 2,924,717 168,161 SALES\$
Channel to Channel to Channel to Channel to CHANNEL_To Channel to	otal otal otal otal otal otal otal otal	CHANNEL_CLASS Direct Direct Direct	US GB CO	Americas Europe Europe Americas Americas Europe COUNTRY_R Europe Americas	EGION	2,603,473 2,603,473 2,924,717 321,244 321,244 2,603,473 2,603,473 2,924,717 168,161 SALES\$
Channel to Channel to Channel to CHANNEL_To Channel to	otal otal otal otal OTAL otal otal otal otal	CHANNEL_CLASS Direct Direct Direct Direct Others	US GB CO US	Americas Europe Europe Americas Americas Europe COUNTRY_R Europe Americas	EGION	2,603,473 2,603,473 2,924,717 321,244 2,603,473 2,603,473 2,924,717 168,161 SALES\$ 168,161 1,187,918 1,187,918

Channel total Others Channel total Others Channel total Others Channel total Indirect Channel total Indirect			Americas Americas Europe Europe		729,606 729,606 806,872 75,817 75,817
CHANNEL_TOTAL CHANNEL_CI		C0	COUNTRY_REGION	SALES\$	
Channel total Indirect Channel total Indirect Channel total Indirect		US	Americas Americas		685,949 685,949 761,766
25 rows selected.					
QUERY 10:					
SQL> SELECT deptno, job FROM emp GROUP BY CUBE(deptno, jo					
DEPTNO JOB	SUM(SAL)				
CLERK ANALYST MANAGER SALESMAN PRESIDENT 10 10 CLERK 10 MANAGER 10 PRESIDENT 20 DEPTNO JOB	8275 5600				
30	9400				
30 CLERK 30 MANAGER 30 SALESMAN	950 2850 5600				
18 rows selected.					
QUERY 11: SQL> SELECT channels.cha countries.country_na TO_CHAR(SUM(amounter) FROM sales, customent	ame, t_sold),'9,	999,	999,999') SALES\$		

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		16,569
Internet	2000-09	United States of America	124,224
Internet	2000-09		140,793
CHANNEL_DESC	CALENDAR	COUNTRY_NAME	SALES\$
Internet	2000-10	United Kingdom	14,539
Internet	2000-10	United States of America	137,054
Internet	2000-10		151,593
CHANNEL_DESC	CALENDAR	COUNTRY_NAME	SALES\$
Internet			292,387
Direct Sales	2000-09	United Kingdom	85,223
Direct Sales	2000-09	United States of America	638,201
CHANNEL_DESC		COUNTRY_NAME	SALES\$
Direct Sales			723,424
Direct Sales	2000-10	United Kingdo	91,925
Direct Sales	2000-10	United States of America	682,297
CHANNEL_DESC	CALENDAR	COUNTRY_NAME	SALES\$
Direct Sales	2000-10		774,222
Direct Sales			1,497,646
15 rows selected.			1,790,032

QUERY 12:

```
SQL> SELECT
  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
 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
```

CHANNEL_DESC	CALLINDAN	CO	3011_A1100111_30LD	divooi Ting_TD
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	СО	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.

```
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
                  2001-10
2001-09
2001-09
Direct Sales
                                            642016.24
Direct Sales
                                          714062.98
336428.69
Internet
                  2001-09
2001-09
GB
2001-09
US
2001-10
GB
2001-10
US
2001-09
GB
2001-09
US
2001-10
GB
Internet
                                            36806.73
                                         299621.96
Internet
Internet
                                            39010.76
Internet
                                           386326.55
Direct Sales
Direct Sales
                                            92865.04
                                            621197.94
Direct Sales
                                            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
```

2001-10

642016.24

Direct Sales

Direct Sales	2001-09		714062.98
Internet	2001-09		336428.69
Direct Sales	2001-10	US	566719.8
01111111111 DECC			C
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	2001 05	GD	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	2001-05	US	299621.96
	2001-09	GB	
Internet			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	
Direct Sales	2001-09	05	714062.98
			336428.69
Internet	2001-09		
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			
Direct Sales	2001-09		336428.69
	2001-09		
	2001-09 2001-09		714062.98
Internet	2001-09 2001-09 2001-10		714062.98 425337.31
Internet Direct Sales	2001-09 2001-09 2001-10 2001-10		714062.98 425337.31 642016.24
Internet Direct Sales Direct Sales	2001-09 2001-09 2001-10 2001-10 2001-10	US	714062.98 425337.31 642016.24 566719.8
Internet Direct Sales	2001-09 2001-09 2001-10 2001-10	US GB	714062.98 425337.31 642016.24

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

83 rows selected.
