Task 1

1. Max, min, summary sales by December 2000, Internet and Direct Sales, All States

SELECT CASE

WHEN GROUPING\_ID (TIMES.CALENDAR\_MONTH\_DESC,CHANNELS.CHANNEL\_DESC,COUNTRIES.COUNTRY\_NAME) = 7

THEN 'GRAND TOTAL'

ELSE TIMES.CALENDAR\_MONTH\_DESC

END YEAR\_MONTH,

CASE

WHEN GROUPING\_ID (TIMES.CALENDAR\_MONTH\_DESC,CHANNELS.CHANNEL\_DESC,COUNTRIES.COUNTRY\_NAME) = 3

THEN 'Total by Channels'

ELSE CHANNELS.CHANNEL\_DESC

END CHANNEL,

CASE

WHEN GROUPING\_ID (TIMES.CALENDAR\_MONTH\_DESC,CHANNELS.CHANNEL\_DESC,COUNTRIES.COUNTRY\_NAME) = 1

THEN CHANNELS.CHANNEL\_DESC || ' Total by Sales'

ELSE COUNTRIES.COUNTRY\_NAME

END COUNTRY,

TO\_CHAR(MAX(AMOUNT\_SOLD),'9,999') "MAX\_SALES$",

TO\_CHAR(MIN(AMOUNT\_SOLD),'9,999') "MIN\_SALES$",

TO\_CHAR(SUM(AMOUNT\_SOLD),'9,999,999') "SALES$"

FROM TIMES, SALES, CHANNELS, COUNTRIES, CUSTOMERS

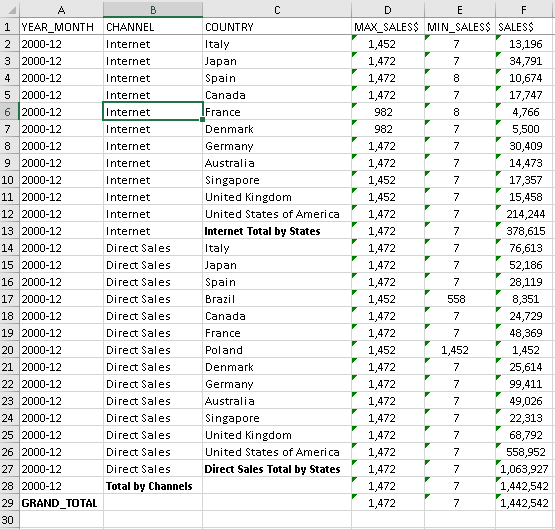
WHERE SALES.TIME\_ID=TIMES.TIME\_ID and SALES.CUST\_ID=CUSTOMERS.CUST\_ID and

SALES.CHANNEL\_ID=CHANNELS.CHANNEL\_ID and TIMES.CALENDAR\_MONTH\_DESC='2000-12' and

CHANNELS.CHANNEL\_DESC in ('Internet', 'Direct Sales') and CUSTOMERS.COUNTRY\_ID=COUNTRIES.COUNTRY\_ID

GROUP BY ROLLUP (TIMES.CALENDAR\_MONTH\_DESC, CHANNELS.CHANNEL\_DESC, COUNTRIES.COUNTRY\_NAME);





1. Sales in Asia from Photo category by 2000 year by quarter(TOTAL & SUM)

SELECT NVL(PROD\_NAME,'TOTAL') AS PRODUCT\_NAME, SUM(Q1) AS Q1, SUM(Q2) AS Q2, SUM(Q3) AS Q3,

SUM(Q4) AS Q4, SUM(YEAR\_SUM) AS YEAR\_SUM

FROM

(SELECT DISTINCT PRODUCTS.PROD\_NAME,

NTH\_VALUE(SUM(AMOUNT\_SOLD),1) OVER (PARTITION BY PRODUCTS.PROD\_NAME ORDER BY TIMES.CALENDAR\_QUARTER\_NUMBER ASC RANGE BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING) AS Q1,

NTH\_VALUE(SUM(AMOUNT\_SOLD),2) OVER (PARTITION BY PRODUCTS.PROD\_NAME ORDER BY TIMES.CALENDAR\_QUARTER\_NUMBER ASC RANGE BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING) AS Q2,

NTH\_VALUE(SUM(AMOUNT\_SOLD),3) OVER (PARTITION BY PRODUCTS.PROD\_NAME ORDER BY TIMES.CALENDAR\_QUARTER\_NUMBER ASC RANGE BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING) AS Q3,

NTH\_VALUE(SUM(AMOUNT\_SOLD),4) OVER (PARTITION BY PRODUCTS.PROD\_NAME ORDER BY TIMES.CALENDAR\_QUARTER\_NUMBER ASC RANGE BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING) AS Q4,

SUM(SUM(AMOUNT\_SOLD)) OVER (PARTITION BY PRODUCTS.PROD\_NAME) AS YEAR\_SUM

FROM PRODUCTS, TIMES, SALES, COUNTRIES, CUSTOMERS

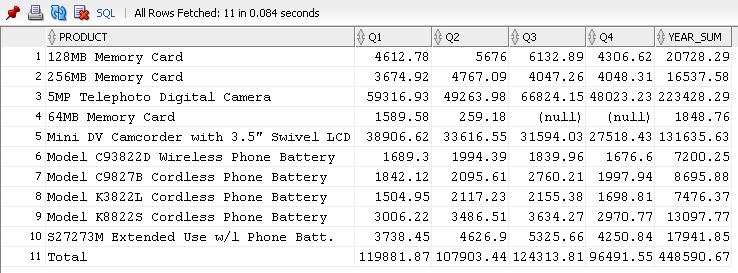
WHERE SALES.TIME\_ID=TIMES.TIME\_ID and SALES.CUST\_ID=CUSTOMERS.CUST\_ID and

SALES.PROD\_ID=PRODUCTS.PROD\_ID and CUSTOMERS.COUNTRY\_ID=COUNTRIES.COUNTRY\_ID and

PRODUCTS.PROD\_CATEGORY='Photo' and TIMES.CALENDAR\_YEAR=2000 and COUNTRIES.COUNTRY\_SUBREGION='Asia'

GROUP BY PRODUCTS.PROD\_NAME, TIMES.CALENDAR\_QUARTER\_NUMBER)

GROUP BY ROLLUP(PROD\_NAME);



1. PIVOT

SELECT \* FROM

(SELECT COUNTRIES.COUNTRY\_REGION, PRODUCTS.PROD\_CATEGORY, AMOUNT\_SOLD

FROM PRODUCTS, TIMES, SALES, COUNTRIES, CUSTOMERS

WHERE SALES.TIME\_ID=TIMES.TIME\_ID and SALES.CUST\_ID=CUSTOMERS.CUST\_ID and

SALES.PROD\_ID=PRODUCTS.PROD\_ID and CUSTOMERS.COUNTRY\_ID=COUNTRIES.COUNTRY\_ID)

PIVOT (SUM(AMOUNT\_SOLD) AS SUMS

FOR (PROD\_CATEGORY) IN (('Electronics') AS Electronics,

('Hardware') AS Hardware, Peripherals and Accessories') AS Peripherals\_and\_Accessories,

('Photo') AS Photo, ('Software/Other') AS Software\_Other));

