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# **Task 1**

**Script:**

*SELECT*

*CASE*

*WHEN grouping\_id(calendar\_month\_desc, channel\_desc, country\_name)=7*

*THEN 'GRAND TOTAL'*

*ELSE calendar\_month\_desc*

*END AS year\_month,*

*CASE*

*WHEN grouping\_id(calendar\_month\_desc, channel\_desc, country\_name) =3*

*THEN 'Total by Channels'*

*ELSE channel\_desc*

*END AS channel,*

*CASE*

*WHEN grouping\_id(calendar\_month\_desc, channel\_desc, country\_name) =1*

*THEN channel\_desc*

*||' Total by Sales'*

*ELSE country\_name*

*END AS country,*

*ROUND(MAX(amount\_sold)) AS "MAX\_SALES$",*

*ROUND(MIN(amount\_sold)) AS "MIN\_SALES&",*

*ROUND(SUM(amount\_sold)) AS "SALES$"*

*FROM sales*

*JOIN channels*

*ON sales.channel\_id=channels.channel\_id*

*JOIN times*

*ON times.time\_id=sales.time\_id*

*JOIN customers*

*ON customers.cust\_id = sales.cust\_id*

*JOIN countries*

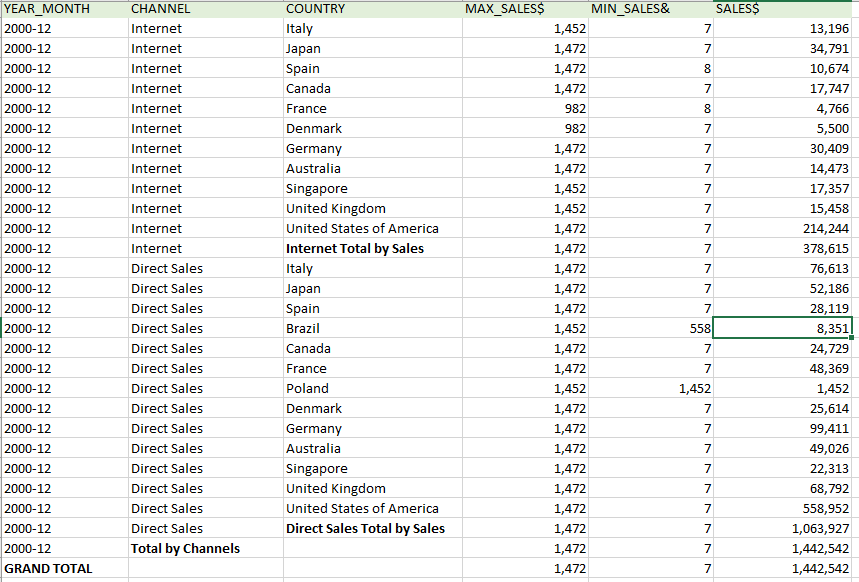
*ON countries.country\_id = customers.country\_id*

*WHERE TO\_CHAR(calendar\_month\_desc) = '2000-12'*

*AND channel\_desc IN ('Internet', 'Direct Sales')*

*GROUP BY rollup(calendar\_month\_desc, channel\_desc, country\_name);*

**Result**



# **Task 2**

**Script:**

*SELECT NVL(products.prod\_name,'TOTAL') AS Prod\_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 AS prod\_name,*

*NTH\_VALUE(SUM(AMOUNT\_SOLD),1) OVER (PARTITION BY 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 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 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 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 prod\_name) AS YEAR\_SUM*

*FROM sales*

*JOIN products*

*ON sales.prod\_id=products.prod\_id*

*JOIN times*

*ON sales.time\_id=times.time\_id*

*JOIN channels*

*ON sales.channel\_id=channels.channel\_id*

*JOIN customers*

*ON sales.cust\_id=customers.cust\_id*

*JOIN countries*

*ON customers.country\_id =countries.country\_id*

*WHERE times.calendar\_year ='2000'*

*AND country\_region ='Asia'*

*AND prod\_category ='Photo'*

*GROUP BY products.prod\_name,*

*times .calendar\_quarter\_number*

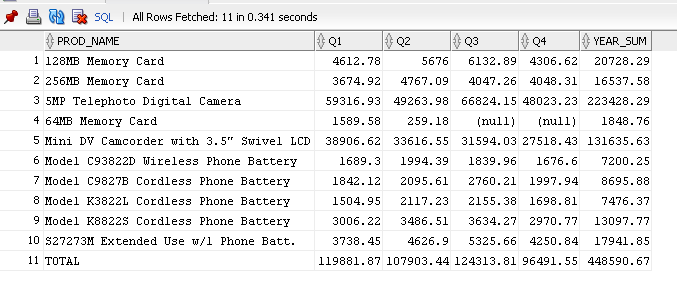
*) quarters*

*JOIN products*

*ON quarters.prod\_name=products.prod\_name*

*GROUP BY rollup(products.prod\_name) ;*

**Result:**



# **Task 3**

**Goal**: to find profit on products in the regions.

**Script:**

*SELECT \**

*FROM*

*(SELECT prod\_name,*

*country\_region,*

*amount\_sold*

*FROM sales*

*LEFT JOIN products*

*ON sales.prod\_id=products.prod\_id*

*LEFT JOIN customers*

*ON sales.cust\_id=customers.cust\_id*

*LEFT JOIN countries*

*ON customers.country\_id =countries.country\_id*

*) PIVOT(SUM(amount\_sold) FOR (country\_region) IN (('Oceania')AS Oceania, ('Middle East')AS Middle\_East,*

*('Europe')AS Europe, ('Africa')AS Africa , ('Asia')AS Asia , ('Americas')AS Americas )) ;*

**Result:**

