

U2M2.LW.Advanced Grouping

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# DAILY REPORTS

```
-- DAILY REPORT ON ALL SUBCATEGORIES IN ALL COUNTRIES
SELECT DISTINCT
  INSERT_DT AS TRANSACTION_DT,
  DECODE(GROUPING(PRODUCT_NAME),1, 'ALL PRODUCTS', PRODUCT_NAME) AS PRODUCT_NAME,
  DECODE(GROUPING(COUNTRY_NAME),1, 'ALL COUNTRIES', COUNTRY_NAME) AS COUNTRY_NAME,
  SUM(COST_DOLLAR_AMOUNT- TRANSACTIONS.COST_DOLLAR_AMOUNT*TRANSACTIONS.DISCOUNT_PERCENTAGE_AMOUNT/100) AS DAILY_PROFIT
FROM TRANSACTIONS
GROUP BY INSERT_DT, CUBE(PRODUCT_NAME, COUNTRY_NAME)
HAVING grouping_id (PRODUCT_NAME) = 1 AND grouping_id (COUNTRY_NAME) = 1
ORDER BY TRANSACTION_DT DESC, DAILY_PROFIT DESC;
```

	TRANSACTION_DT	PRODUCT_NAME	COUNTRY_NAME	DAILY_PROFIT
1	2022-08-10	ALL PRODUCTS	ALL COUNTRIES	2836.3391
2	2022-08-09	ALL PRODUCTS	ALL COUNTRIES	2636.8927
3	2022-08-08	ALL PRODUCTS	ALL COUNTRIES	2785.4633
4	2022-08-07	ALL PRODUCTS	ALL COUNTRIES	2693.0909
5	2022-08-06	ALL PRODUCTS	ALL COUNTRIES	2915.7
6	2022-08-05	ALL PRODUCTS	ALL COUNTRIES	2825.9033
7	2022-08-04	ALL PRODUCTS	ALL COUNTRIES	2939.1736
8	2022-08-03	ALL PRODUCTS	ALL COUNTRIES	2788.0255
9	2022-08-02	ALL PRODUCTS	ALL COUNTRIES	3006.2022
10	2022-08-01	ALL PRODUCTS	ALL COUNTRIES	2637.495
11	2022-07-31	ALL PRODUCTS	ALL COUNTRIES	2900.9903
12	2022-07-30	ALL PRODUCTS	ALL COUNTRIES	2774.1204
13	2022-07-29	ALL PRODUCTS	ALL COUNTRIES	3059.1165
14	2022-07-28	ALL PRODUCTS	ALL COUNTRIES	2845.1173
15	2022-07-27	ALL PRODUCTS	ALL COUNTRIES	2788.2808
16	2022-07-26	ALL PRODUCTS	ALL COUNTRIES	2852.3653
17	2022-07-25	ALL PRODUCTS	ALL COUNTRIES	2906.477
18	2022-07-24	ALL PRODUCTS	ALL COUNTRIES	2599.1707
19	2022-07-23	ALL PRODUCTS	ALL COUNTRIES	2683.9731
20	2022-07-22	ALL PRODUCTS	ALL COUNTRIES	2968.4582

	A	B	C	D
1	TRANSACTION_DT	PRODUCT_NAME	COUNTRY_NAME	DAILY_PROFIT
2	2022-08-10	ALL PRODUCTS	ALL COUNTRIES	2836,3391
3	2022-08-09	ALL PRODUCTS	ALL COUNTRIES	2636,8927
4	2022-08-08	ALL PRODUCTS	ALL COUNTRIES	2785,4633
5	2022-08-07	ALL PRODUCTS	ALL COUNTRIES	2693,0909
6	2022-08-06	ALL PRODUCTS	ALL COUNTRIES	2915,7
7	2022-08-05	ALL PRODUCTS	ALL COUNTRIES	2825,9033
8	2022-08-04	ALL PRODUCTS	ALL COUNTRIES	2939,1736
9	2022-08-03	ALL PRODUCTS	ALL COUNTRIES	2788,0255
10	2022-08-02	ALL PRODUCTS	ALL COUNTRIES	3006,2022

# MONTHLY REPORTS

```
-- MONTHLY REPORT ON ALL PRODUCTS IN ALL COUNTRIES
SELECT DISTINCT
    TO_CHAR(INSERT_DT,'YY-MM') AS MONTH,
    DECODE(GROUPING(PRODUCT_NAME),1, 'ALL PRODUCTS', PRODUCT_NAME) AS PRODUCT_NAME,
    DECODE(GROUPING(COUNTRY_NAME),1, 'ALL COUNTRIES', COUNTRY_NAME) AS COUNTRY_NAME,
    SUM(COST_DOLLAR_AMOUNT-TRANSACTIONS.COST_DOLLAR_AMOUNT*TRANSACTIONS.DISCOUNT_PERCENTAGE_AMOUNT/100) AS MONTH_PROFIT
FROM TRANSACTIONS
GROUP BY TO_CHAR(INSERT_DT,'YY-MM') , CUBE(PRODUCT_NAME, COUNTRY_NAME)
HAVING grouping_id (PRODUCT_NAME) = 1 AND grouping_id (COUNTRY_NAME) = 1
ORDER BY MONTH DESC;
```

	MONTH	PRODUCT_NAME	COUNTRY_NAME	MONTH_PROFIT
1	22-08	ALL PRODUCTS	ALL COUNTRIES	28064.2856
2	22-07	ALL PRODUCTS	ALL COUNTRIES	87341.1951
3	22-06	ALL PRODUCTS	ALL COUNTRIES	85756.1491
4	22-05	ALL PRODUCTS	ALL COUNTRIES	87761.8325
5	22-04	ALL PRODUCTS	ALL COUNTRIES	85546.6579
6	22-03	ALL PRODUCTS	ALL COUNTRIES	86311.6434
7	22-02	ALL PRODUCTS	ALL COUNTRIES	78978.5968
8	22-01	ALL PRODUCTS	ALL COUNTRIES	88581.7051
9	21-12	ALL PRODUCTS	ALL COUNTRIES	87728.4421
10	21-11	ALL PRODUCTS	ALL COUNTRIES	86013.8594
11	21-10	ALL PRODUCTS	ALL COUNTRIES	88374.1792
12	21-09	ALL PRODUCTS	ALL COUNTRIES	85117.555
13	21-08	ALL PRODUCTS	ALL COUNTRIES	87260.404
14	21-07	ALL PRODUCTS	ALL COUNTRIES	87058.5516
15	21-06	ALL PRODUCTS	ALL COUNTRIES	84381.1911
16	21-05	ALL PRODUCTS	ALL COUNTRIES	87252.1592
17	21-04	ALL PRODUCTS	ALL COUNTRIES	84707.718
18	21-03	ALL PRODUCTS	ALL COUNTRIES	88019.3516
19	21-02	ALL PRODUCTS	ALL COUNTRIES	80032.0001
20	21-01	ALL PRODUCTS	ALL COUNTRIES	86035.7516

	A	B	C	D
1	MONTH	PRODUCT_NAME	COUNTRY_NAME	MONTH_PROFIT
2	22-08	ALL PRODUCTS	ALL COUNTRIES	28064,2856
3	22-07	ALL PRODUCTS	ALL COUNTRIES	87341,1951
4	22-06	ALL PRODUCTS	ALL COUNTRIES	85756,1491
5	22-05	ALL PRODUCTS	ALL COUNTRIES	87761,8325
6	22-04	ALL PRODUCTS	ALL COUNTRIES	85546,6579
7	22-03	ALL PRODUCTS	ALL COUNTRIES	86311,6434
8	22-02	ALL PRODUCTS	ALL COUNTRIES	78978,5968
9	22-01	ALL PRODUCTS	ALL COUNTRIES	88581,7051
10	21-12	ALL PRODUCTS	ALL COUNTRIES	87728,4421

# ROLLUP BY TIME

```
--ROLLUP BY TIME
SELECT
    DECODE ( GROUPING_ID ( TRUNC ( INSERT_DT
                                , 'Year' )
                                , TRUNC ( INSERT_DT
                                , 'Q' )
                                , TRUNC ( INSERT_DT
                                , 'Month' )
                                , TRUNC ( INSERT_DT
                                , 'DD' ) )
        , 7, 'Total for year'
        , 15, 'GRANT TOTAL'
        , TRUNC ( INSERT_DT
                , 'Year' ) )
    AS YEAR
    , DECODE ( GROUPING_ID ( TRUNC ( INSERT_DT
                                , 'Year' )
                                , TRUNC ( INSERT_DT
                                , 'Q' )
                                , TRUNC ( INSERT_DT
                                , 'Month' )
                                , TRUNC ( INSERT_DT
                                , 'DD' ) )
        , 3, 'Total for quarter'
        , TRUNC ( INSERT_DT
                , 'Q' ) )
    AS QUARTER
    , DECODE ( GROUPING_ID ( TRUNC ( INSERT_DT
                                , 'Year' )
                                , TRUNC ( INSERT_DT
                                , 'Q' )
                                , TRUNC ( INSERT_DT
                                , 'Month' )
                                , TRUNC ( INSERT_DT
                                , 'DD' ) )
        , 1, 'Total for month'
        , TRUNC ( INSERT_DT
                , 'Month' ) )
    AS MONTH
```

```
AS MONTH
, DECODE ( GROUPING_ID ( TRUNC ( INSERT_DT
                                , 'Year' )
                                , TRUNC ( INSERT_DT
                                , 'Q' )
                                , TRUNC ( INSERT_DT
                                , 'Month' )
                                , TRUNC ( INSERT_DT
                                , 'DD' ) )
        , 15, ''
        , TRUNC ( INSERT_DT
                , 'DD' ) )
    AS DAY
, SUM(COST_DOLLAR_AMOUNT-TRANSACTIONS.COST_DOLLAR_AMOUNT*TRANSACTIONS.DISCOUNT_PERCENTAGE_AMOUNT/100)
    AS DAILY_PROFIT
FROM TRANSACTIONS
GROUP BY ROLLUP ( TRUNC ( INSERT_DT
                    , 'Year' ), TRUNC ( INSERT_DT
                    , 'Q' ), TRUNC ( INSERT_DT
                    , 'Month' ), TRUNC ( INSERT_DT
                    , 'DD' ) );
```

	YEAR	QUARTER	MONTH	DAY	DAILY_PROFIT
1	GRANT TOTAL	<null>	<null>	<null>	1660323.2284
2	Total for year	<null>	<null>	<null>	1031981.1629
3	Total for year	<null>	<null>	<null>	628342.0655
4	01.01.21	Total for quarter	<null>	<null>	262116.4807
5	01.01.21	Total for quarter	<null>	<null>	259436.5106
6	01.01.22	Total for quarter	<null>	<null>	259064.6395
7	01.01.21	Total for quarter	<null>	<null>	256341.0683
8	01.01.21	Total for quarter	<null>	<null>	254087.1033
9	01.01.22	Total for quarter	<null>	<null>	253871.9453
10	01.01.22	Total for quarter	<null>	<null>	115405.4807
11	01.01.22	01.01.22	Total for month	<null>	88581.7051
12	01.01.21	01.10.21	Total for month	<null>	88374.1792
13	01.01.21	01.01.21	Total for month	<null>	88019.3516
14	01.01.22	01.04.22	Total for month	<null>	87761.8325
15	01.01.21	01.10.21	Total for month	<null>	87728.4421
16	01.01.22	01.07.22	Total for month	<null>	87341.1951
17	01.01.21	01.07.21	Total for month	<null>	87260.404
18	01.01.21	01.04.21	Total for month	<null>	87252.1592
19	01.01.21	01.07.21	Total for month	<null>	87058.5516
20	01.01.22	01.01.22	Total for month	<null>	86311.6434
21	01.01.21	01.01.21	Total for month	<null>	86035.7516
22	01.01.21	01.10.21	Total for month	<null>	86013.8594
23	01.01.22	01.04.22	Total for month	<null>	85756.1491
24	01.01.22	01.04.22	Total for month	<null>	85546.6579
25	01.01.21	01.07.21	Total for month	<null>	85117.555
26	01.01.21	01.04.21	Total for month	<null>	84707.718
27	01.01.21	01.04.21	Total for month	<null>	84381.1911
28	01.01.21	01.01.21	Total for month	<null>	80032.0001
29	01.01.22	01.01.22	Total for month	<null>	78978.5968
30	01.01.22	01.07.22	Total for month	<null>	28064.2856
31	01.01.22	01.04.22	01.04.22	07.04.22	3284.6533
32	01.01.22	01.04.22	01.04.22	25.04.22	3206.4418
33	01.01.21	01.07.21	01.08.21	24.08.21	3199.5143
34	01.01.21	01.10.21	01.11.21	25.11.21	3176.5539
35	01.01.22	01.01.22	01.01.22	19.01.22	3176.2724

	A	B	C	D	E
1	YEAR	QUARTER	MONTH	DAY	DAILY_PROFIT
2	GRANT TOTAL				1660323,228
3	Total for year				1031981,163
4	Total for year				628342,0655
5	01.01.21	Total for quarter			262116,4807
6	01.01.21	Total for quarter			259436,5106
7	01.01.22	Total for quarter			259064,6395
8	01.01.21	Total for quarter			256341,0683
9	01.01.21	Total for quarter			254087,1033
10	01.01.22	Total for quarter			253871,9453
11	01.01.22	Total for quarter			115405,4807
12	01.01.22	01.01.22	Total for month		88581,7051
13	01.01.21	01.10.21	Total for month		88374,1792
14	01.01.21	01.01.21	Total for month		88019,3516
15	01.01.22	01.04.22	Total for month		87761,8325
16	01.01.21	01.10.21	Total for month		87728,4421
17	01.01.22	01.07.22	Total for month		87341,1951
18	01.01.21	01.07.21	Total for month		87260,404
19	01.01.21	01.04.21	Total for month		87252,1592
20	01.01.21	01.07.21	Total for month		87058,5516