

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 | 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 |