

1. Provide The List Of Markets In Which Customer "Atliq Exclusive" Operates Its Business In The APAC Region.

SELECT

DISTINCT market from dim_customer WHERE customer ="Atliq Exclusive" and region ="APAC"



market

India

Indonesia

Japan

Philiphines

South Korea

Australia

Newzealand

Bangladesh

INSIGHT

 Out of 10 market APAC regions "Atliq Exclusive" having market in 8 regions



2. What Is The Percentage Of Unique Product Increase In 2021 Vs 2020? The Final Output Contains These Fields, Unique_products_2020, Unique_products_2021, Percentage_change

```
WITH CTE2 AS (
SELECT

COUNT(DISTINCT product_code) as unique_products_2020,
        (SELECT COUNT(DISTINCT product_code)
        FROM fact_sales_monthly WHERE fiscal_year =2021)
        as unique_products_2021
        FROM fact_sales_monthly
        WHERE fiscal_year =2020)

SELECT *,
        ROUND(((unique_products_2021-unique_products_2020)*100/unique_products_2020),2) as percentage_change FROM CTE2;
```



unique_products_2020	unique_products_2021	percentage_change
245	334	36.33

INSIGHT

 Interestingly, there were No change in the market size between 2020-21.but, the unique product count were increased to 36.33%, which shows that the demand and supply for products in the same region got increased significantly.

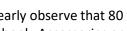
3. Provide a report with all the unique product counts for each segment and sort them in descending order of product counts. The final output contains 2 fields they are segment, product_count

SELECT

segment, COUNT(segment) as product_count FROM dim_product **GROUP BY segment** ORDER BY product_count DESC;

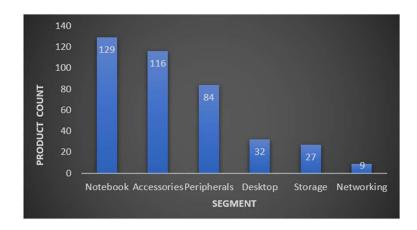


segment	product_count
Notebook	129
Accessories	116
Peripherals	84
Desktop	32
Storage	27
Networking	9

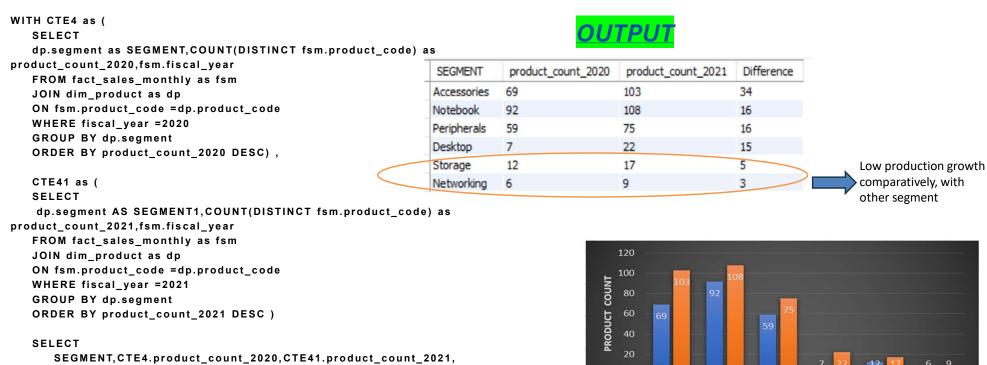


• We can clearly observe that 80 % of products are from Notebook, Accessories and Peripherals segment

INSIGHT



4. Which segment had the most increase in unique products in 2021 vs 2020? The final output contains these fields, segment, product count 2020, product count 2021, difference



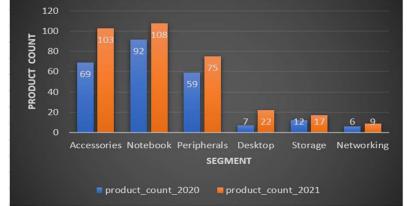
(CTE41.product_count_2021-CTE4.product_count_2020) AS Difference

FROM CTE4

JOIN CTE41

ON CTE4.SEGMENT = CTE41.SEGMENT1

ORDER BY Difference DESC:



5. Get the products that have the highest and lowest manufacturing costs. The final output should contain these fields, product_code, product, manufacturing_cost

SELECT

dp.product_code, product,
fmc.manufacturing_cost,fmc.cost_year

FROM dim_product as dp

JOIN fact_manufacturing_cost as fmc

USING(product_code)

WHERE manufacturing_cost in ((select min(manufacturing_cost) from fact_manufacturing_cost)

UNION

(select max(manufacturing_cost) from fact_manufacturing_cost));



product_code	product	manufacturing_cost
A2118150101	AQ Master wired x1 Ms	0.8920
A6120110206	AQ HOME Allin1 Gen 2	240.5364

6. Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields, customer_code,customer,average_discount_percentage

SELECT

dc.customer_code,customer, ROUND(avg(pre_invoice_discount_pct),4) as avg_discount_percentage

From dim_customer as dc

JOIN fact_pre_invoice_deductions as fpid

ON dc.customer_code =fpid.customer_code

WHERE dc.market ="India" and fpid.fiscal_year =2021

GROUP BY (dc.customer_code)
ORDER BY avg_discount_percentage DESC

LIMIT 5;



customer_code	customer	avg_discount_percentage
90002009	Flipkart	0.3083
90002006	Viveks	0.3038
90002003	Ezone	0.3028
90002002	Croma	0.3025
90002016	Amazon	0.2933

INSIGHT

 Although, Flipkart customer having highest avg discount % among Top 5 customers. But, there were very minor % change b/w the customers, which doesn't make much difference b/w customers. 7. Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month. This analysis helps to get an idea of low and high-performing months and take strategic decisions.

The final report contains these columns: Month, Year, Gross sales Amount

SELECT

fsm.date,MONTHNAME(fsm.date) as
month,YEAR(fsm.date) as
year,fsm.fiscal_year,dc.customer,
(SUM(fsm.sold_quantity*fgp.gross_price)) as
monthly_gross_sales_amt

FROM fact_sales_monthly as fsm

JOIN dim_customer as dc

ON fsm.customer_code =dc.customer_code

JOIN fact_gross_price as fgp

ON fsm.product_code =fgp.product_code

WHERE dc.customer ="Atliq Exclusive"

GROUP BY month, year;



OUTPUT

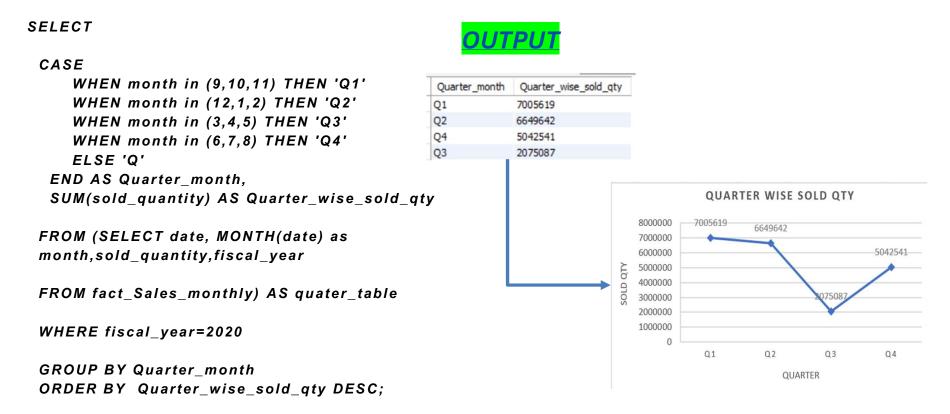
date	month	fiscal_year	monthly_gross_sales_amt	Rank
01-09-2019 5	September	2020	9092670.339	17
01-10-2019	October	2020	10378637.6	14
01-11-2019 N	November	2020	15231894.97	11
01-12-2019	December	2020	9755795.058	15
01-01-2020 J	lanuary	2020	9584951.939	16
01-02-2020 F	ebruary	2020	8083995.548	18
01-03-2020 N	March	2020	766976.4531	24
01-04-2020	April	2020	800071.9543	23
01-05-2020 N	May	2020	1586964.477	22
01-06-2020 J	lune	2020	3429736.571	21
01-07-2020 J	luly	2020	5151815.402	20
01-08-2020	August	2020	5638281.829	19
01-09-2020 9	September	2021	19530271.3	5
01-10-2020	October	2021	21016218.21	2
01-11-2020 N	November	2021	32247289.79	1
01-12-2020 [December	2021	20409063.18	3
01-01-2021 J	lanuary	2021	19570701.71	4
01-02-2021 F	ebruary	2021	15986603.89	9
01-03-2021 N	March	2021	19149624.92	7
01-04-2021	April	2021	11483530.3	12
01-05-2021 N	May	2021	19204309.41	6
01-06-2021 J	lune	2021	15457579.66	10
01-07-2021 J	luly	2021	19044968.82	8
01-08-2021		2021	11324548.34	13

INSIGHTS

- The sales of "Atliq Exclusive" from march 2k20

 August 2k20 were falling drastically.
 which we can assume it because of covid 19.
- By, November FY 2k21 the sales got raised highly, which is more than 40 X times to the lowest month(March) from FY 2k20.
- FY 2k21 had the better sales comparatively with 2k20 sales.

8. In which quarter of 2020, got the maximum total_sold_quantity? The final output contains these fields sorted by the total_sold_quantity, Quarter,total_sold_quantity



9. Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields: channel,gross_sales_mln,percentage

```
WITH CTE9 as(

SELECT

dc.channel,

CONCAT(ROUND(SUM(fgp.gross_price*fsm.sold_quantity)/1000000,2)," M")

as Gross_Sales_mlns

FROM fact_sales_monthly as fsm

JOIN dim_customer as dc ON fsm.customer_code =dc.customer_code

JOIN fact_gross_price as fgp ON fsm.product_code =fgp.product_code

WHERE fsm.fiscal_year =2021

GROUP BY channel)

SELECT *,

CONCAT(ROUND(gross_sales_mlns*100/SUM(gross_sales_mlns) over(),2)," %")

as Gross_Sales_pct

FROM CTE9
```

ORDER BY Gross_Sales_pct DESC;



channel	Gross_Sales_mlns	Gross_Sales_pct
Retailer	1924.17 M	73.22 %
Direct	406.69 M	15.48 %
Distributor	297.18 M	11.31 %



 Retailer channel had the clear dominance comparatively with Direct and Distributor channel.

10. Get the Top 3 products in each division that have a high total sold quantity in the fiscal year 2021? The final output contains these fields division, product code

```
WITH CTE10 as(SELECT
   fsm.product_code, division, SUM(sold_quantity)
    as Total Sold Qtv
    FROM dim_product as dp
    JOIN fact_sales_monthly as fsm
    ON dp.product_code =fsm.product_code
    WHERE fsm.fiscal_year = 2021
    GROUP BY product_code
    ORDER BY division, Total_Sold_Qty DESC
    ),
 CTE10_1 AS (
      SELECT
     CTE10.product_code,
     dense_rank() over(partition by division ORDER
RY
     Total_Sold_Qty DESC) as ranking
      FROM CTE10)
  SELECT
  CTE10.product_code, CTE10.division,
  CTE10.Total_Sold_Qty,CTE10_1.ranking
  FROM CTE10
  JOIN CTE10_1
  ON CTE10.product_Code = CTE10_1.product_code
   WHERE ranking<=3
```



Total_Sold_Qty	ranking
	ranking
701373	1
688003	2
676245	3
428498	1
419865	2
419471	3
17434	1
17280	2
17275	3
	701373 688003 676245 428498 419865 419471 17434 17280

