ATLIQ HARDWARES

CONSUMER GOODS

AD-HOC-INSIGHTS

Presented by Krunal prajapati

Request 1

Question:-

Provide the list of the markets in which customer Atliq Exclusive operates its business in the APAC region.

SQL Query

```
SELECT market
FROM dim_customer
WHERE customer= 'Atliq Exclusive' AND region= 'APAC'
GROUP BY market;
```

Output

market
India
Indonesia
Japan
Philiphines
South Korea
Australia
Newzealand
Bangladesh

VISUAL 1

Insights

• Atliq Exclusive “ has a presence in several countries across the APAC region including India, Indonesia, Japan, Philippines, South Korea, Australia, New Zealand and Bangladesh.

• It reflects a robust market presence and adaptability to different cultural and economic contexts in the Asia-Pacific region.

Request 2

Question: -

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_chg.

SQL Query

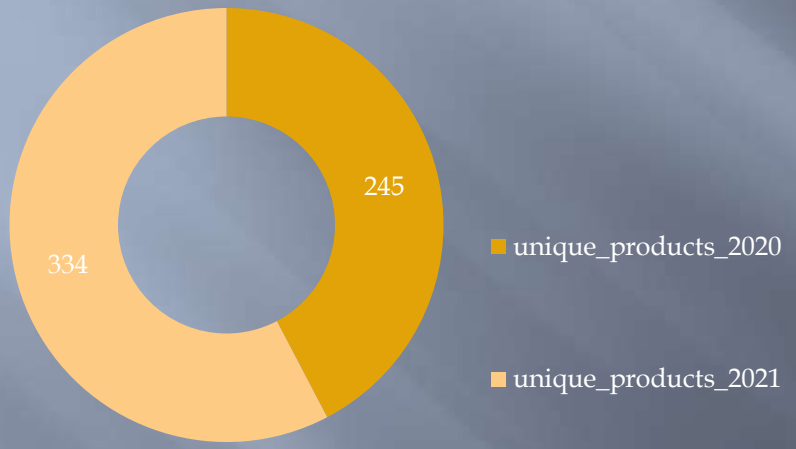
```
WITH X AS
(SELECT COUNT(DISTINCT product_code) AS unique_products_2020 FROM fact_sales_monthly WHERE fiscal_year = 2020),
Y AS
(SELECT COUNT(DISTINCT product_code) AS unique_products_2021 FROM fact_sales_monthly WHERE fiscal_year = 2021)
SELECT
X.unique_products_2020, Y.unique_products_2021,
round(((Y.unique_products_2021-X.unique_products_2020)/X.unique_products_2020)*100,2)AS Percentage_chg FROM X,Y;
```

Output

unique_products_2020	unique_products_2021	Percentage_chg
245	334	36.33

VISUAL 2

Rise in unique_products 2021 vs.2020



Insights

- There was a significant increase in unique product with 334 in 2021compared to 245 in 2020.
- The percentage change represents a growth of 36.33% in unique products from one year to the next.
- This substantial increase in unique products suggests a focus on expanding product offering, which can attract a broader customer base and potentially boost sales and revenue.
- It's a positive indicator of business growth and adaptability to changing market demands.

Request 3

Question:-

Provide a report with the all unique product count for each segment and sort them in descending order of product count.
The final output contains 2 fields product count and segment.

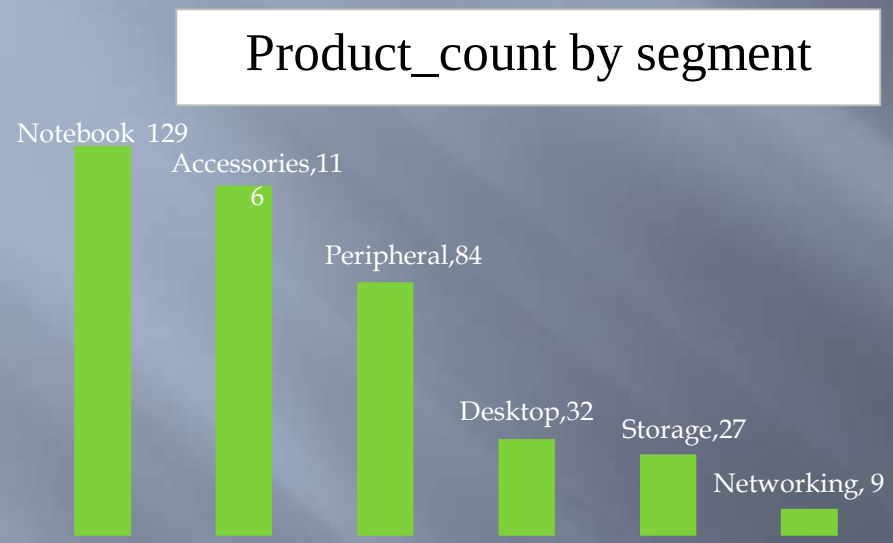
SQL Query

```
select segment,
count(distinct (product_code)) as product_count from dim_product
group by segment
order by product count desc
```

Output

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

VISUAL 3



Insights

•The "Notebook "segment has the highest product count with 129 product.

• The "Networking" segment has the smallest product count with only 9 products.

• This insights indicate the diversity and product offering within each segment with "Notebook" and "Accessories" offering a wide range of options ,while "Networking" has a more limited selection.

• The variety in product offering allow scatering to various customer preferences and needs across different segment.

Request 4

Question:-

Follow up:- Which segment had the most increase in unique product in 2021 vs. 2020.The final output contains these fields segment,product_count_2020 , product_count_2021 and its difference

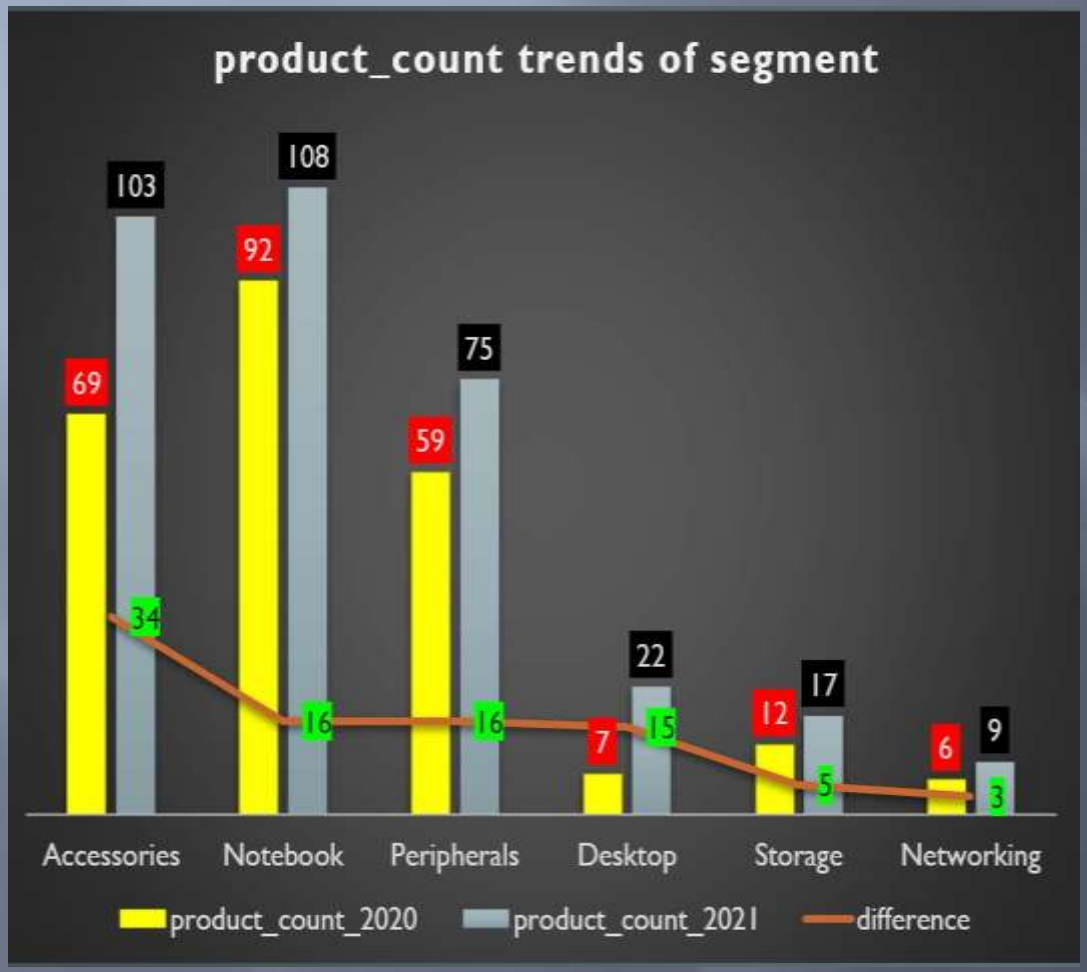
SQL Query

```
with x as ( select p.segment,
count(distinct s.product_code) as product_count_2020 from dim_product p
join fact_sales_monthly s on p.product_code = s.product_code where s.fiscal_year=2020 group by p.segment) ,
y as ( select p.segment,
count(distinct s.product_code) as product_count_2021 from dim_product p
join fact_sales_monthly s on p.product_code = s.product_code where s.fiscal_year=2021 group by p.segment)
select x.segment , product_count_2020 ,product_count_2021,abs(x.product_count_2020- y.product_count_2021) as difference
from x join y on x.segment=y.segment  order by difference desc
```

Output

segment	product_count_2020	product_count_2021	difference
Accessories	69	103	34
Notebook	92	108	16
Peripherals	59	75	16
Desktop	7	22	15
Storage	12	17	5
Networking	6	9	3

VISUAL 4



Insights

- The "Accessories" segment saw a significant increase in product counts with 34 more products in 2021 compared to 2020.

- These insights suggest a general trend of product portfolio growth particularly in the "Accessories" and "Notebook" segments, which can indicate a strategy to cater to a broader range of customer preferences.

- The growth in product variety may enhance market competitiveness and offer customers more choices.

Request 5

Question:-

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

SQL Query

```
select m.product_code, p.product, m.manufacturing_cost
from fact_manufacturing_cost m join dim_product p using (product_code)
where m.manufacturing_cost = (select max(manufacturing_cost) from fact_manufacturing_cost)
or m.manufacturing_cost = (select min(manufacturing_cost) from fact_manufacturing_cost)
order by m.manufacturing_cost desc;
```

Output

product_code	product	manufacturing_cost
A6121110208	AQ HOME Allin1 Gen 2	263.4207
A2118150101	AQ Master wired x1 Ms	0.8654

Insights

- "AQ HOME Allin 1 Gen 2 " has relatively higher manufacturing cost of 263.42.
- In contrast, "AQ Master wired x 1 Ms" has significantly lower manufacturing cost of 0.8654

Request 6

Question:-

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

SQL Query

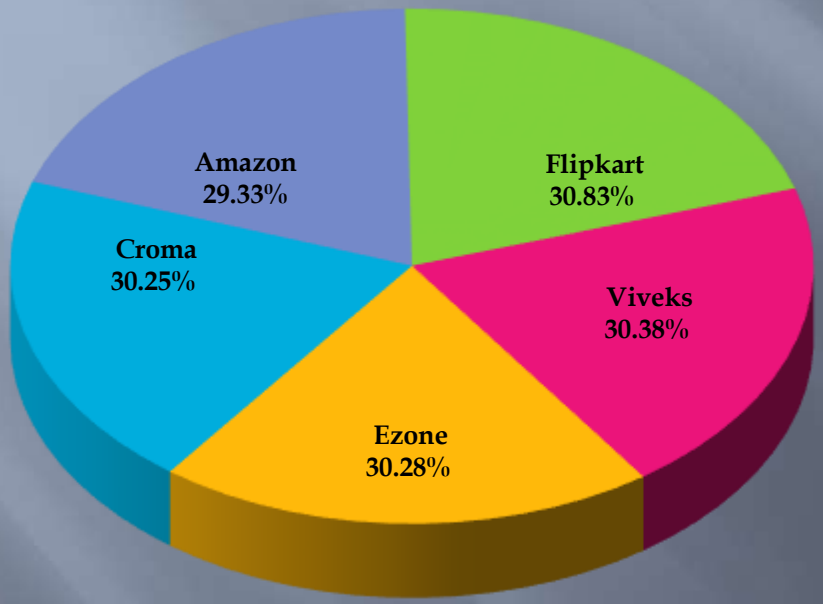
```
select i.customer_code, c.customer, round(avg(i.pre_invoice_discount_pct)*100,2) as avg_dis_pct
from fact_pre_invoice_deductions i
join dim_customer c using (customer_code)
where fiscal_year =2021 and c.market="india"
group by i.customer_code, c.customer
order by avg_dis_pct desc
limit 5;
```

SQL Query

customer_code	customer	avg_dis_pct
90002009	Flipkart	30.83
90002006	Viveks	30.38
90002003	Ezone	30.28
90002002	Croma	30.25
90002016	Amazon	29.33

VISUAL 6

Customer Vs. Avg_dis_pct



Insights

•“Flipkart ” has the highest average pre-invoice discount percentage at 30.83%.

•“Amazon” has a comparatively lower average discount at 29.33%.

•These insights indicate varying discount strategies among customers with “Flipkart” and “Viveks” offering the highest average discount, potentially attracting cost-conscious shoppers.

•“Amazon” provide relatively lower discounts, suggesting a different pricing strategy or a customer base less sensitive to discounts.

•These insights can be valuable for adjusting discount strategies and understanding customer preferences.

Request 7

Question:-

Get complete report of 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 and Gross_sale_amount.

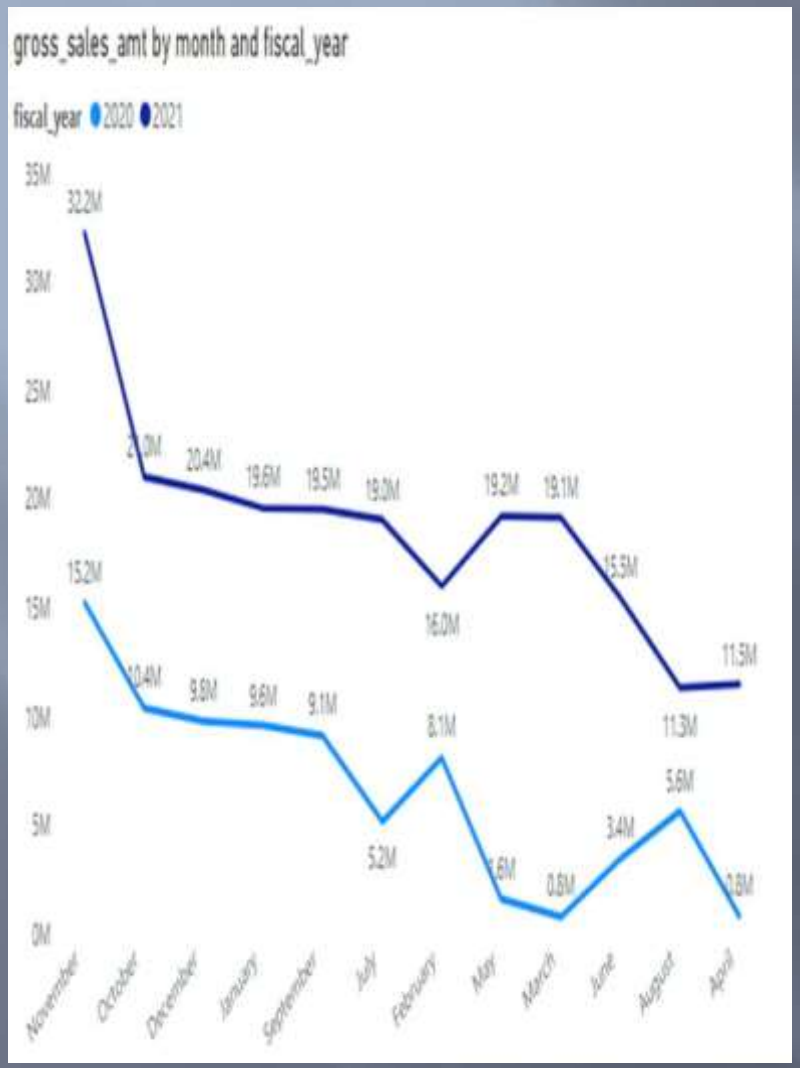
SQL Query

```
select monthname(s.date) as month, s.fiscal_year,
round(sum(g.gross_price*sold_quantity),2)
as gross_sales_amt
from fact_sales_monthly s
join dim_customer c using(customer_code)
join fact_gross_price g using(product_code)
where customer="atliq exclusive"
group by monthname(s.date) ,s.fiscal_year
order by fiscal_year ;
```

Output

month	fiscal_year	gross_sales_amt
September	2020	9092670.34
October	2020	10378637.60
November	2020	15231894.97
December	2020	9755795.06
January	2020	9584951.94
February	2020	8083995.55
March	2020	766976.45
April	2020	800071.95
May	2020	1586964.48
June	2020	3429736.57
July	2020	5151815.40
August	2020	5638281.83
September	2021	19530271.30
October	2021	21016218.21
November	2021	32247289.79
December	2021	20409063.18
January	2021	19570701.71
February	2021	15986603.89
March	2021	19149624.92
April	2021	11483530.30
May	2021	19204309.41
June	2021	15457579.66
July	2021	19044968.82
August	2021	11324548.34

VISUAL 7



Insights

- November 2021 had the highest gross sale amount, reaching $32,247,289.79.
- In contrast, the fiscal year 2021 started with lower sales in september but still had a significant peak in november.
- There is a notable seasonality in sales, with november being a consistently strong month.
- The month of March and April in fiscal year 2020 had relatively low sales, which improved in fiscal year 2021.
- These insights can guide strategic decisions, such as focusing marketing efforts and inventory planning around peak sales months and addressing potential challenges during lower sales months.

Report 8

Question:-
In which quarter of 2020 got maximum total_sold_quantity ?.The final output contains these fields quarter total_sold_quantity and sorted by total_sold_quantity

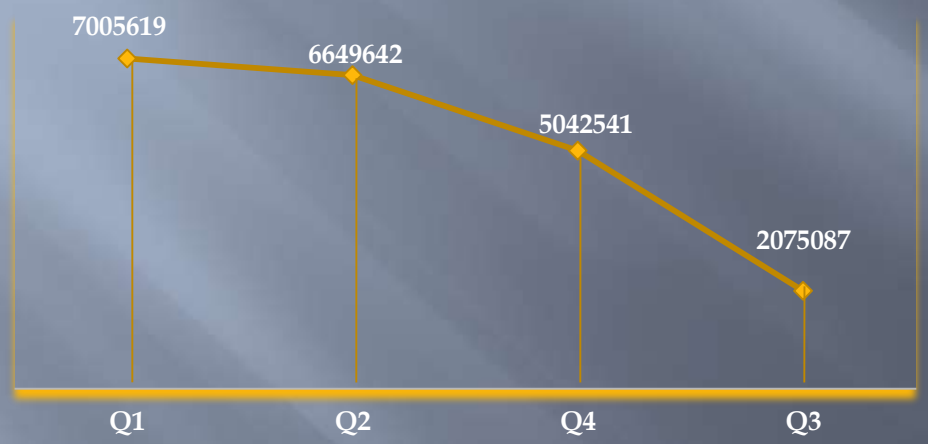
SQL Query

```
SELECT
CASE
WHEN month(date) in (9,10,11) then 'Q1'
WHEN month(date) in (12,01,02) then 'Q2'
WHEN month(date) in (03,04,05) then 'Q3' ELSE 'Q4'
END AS Quarters,
SUM(sold_quantity) AS total_sold_qty
FROM fact_sales_monthly
WHERE fiscal_year = 2020 GROUP BY Quarters
ORDER BY total_sold_qty DESC;
```

Output

Quarters	total_sold_qty
Q1	7005619
Q2	6649642
Q4	5042541
Q3	2075087

VISUAL 8



Insights

•The highest total sold quantity is in Q1,with 7005,619 units.

• These insights highlight a seasonal variation in sales, with Q1 and Q2 being the strongest quarters and Q3 being the we
akest.

• This information is valuable for planning inventory and marketing strategies to align with seasonal demand.

Report 9

Question:-

Which channel helped to bring more gross sale in the fiscal year and percentage of contribution?.The final output contains these fields channel,gross_sales and percentage.

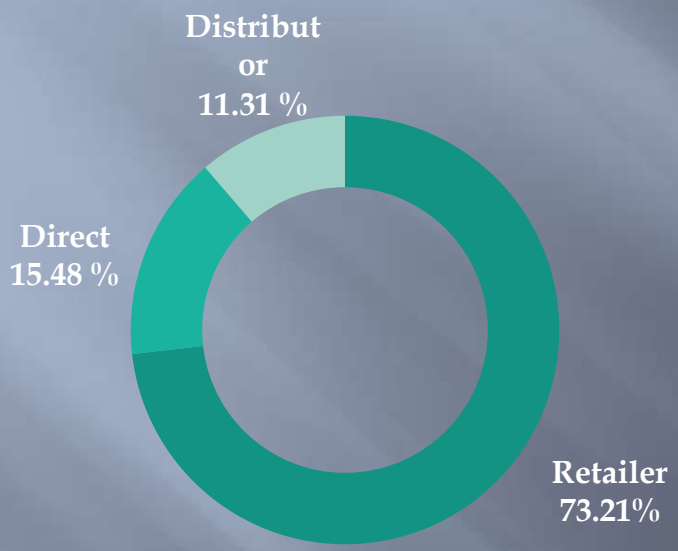
SQL Query

```
with x as (select c.channel,
round(sum(g.gross_price*s.sold_quantity)/100000,2) as gross_sales
from fact_sales_monthly s
join dim_customer c using(customer_code)
join fact_gross_price g using(product_code)
where s.fiscal_year = 2021
group by c.channel)
select channel,gross_sales,
round((gross_sales/(select sum(gross_sales) from x))*100,2) as pct
from x
order by gross_sales desc;
```

Output

channel	gross_sales	pct
Retailer	37084.60	73.21
Direct	7841.44	15.48
Distributor	5728.59	11.31

VISUAL 9



Insights

•The “Retailer” channel accounts for the majority of sales contributing to 73.22% of gross sales.

•The “Direct” channel also plays significant role, representing 15.47% of gross sales.

•The “Distributor” channel contributes 11.31% of gross sales.

•A significant focus on the “Retailer ”channel suggests ,it is the primary revenue driver.

•Diversification and growth opportunities amy be explored in the “Direct” and “Distributor” channels to further maximize sales.

Report 10

Question:-

Get the Top 3 product in each division that have high total_sold_quantity in the fiscal_year 2021.The final output contain these fields division ,product_code and product

SQL Query

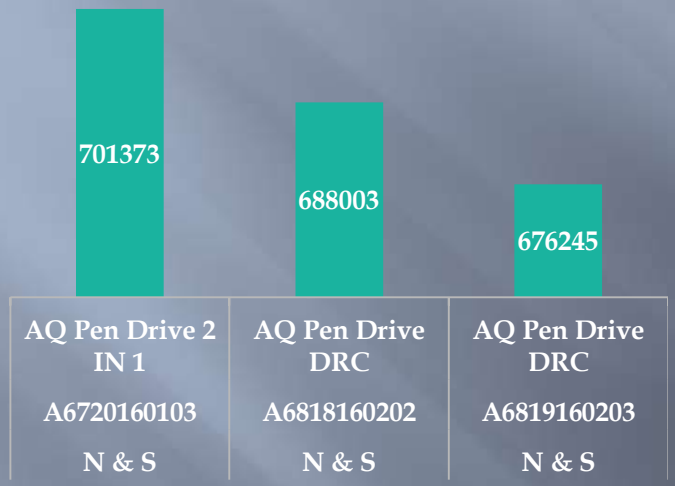
```
WITH x AS(
SELECT P.division, S.product_code, P.product, SUM(S.sold_quantity)
AS Total_sold_quantity,
RANK() OVER(PARTITION BY P.division
ORDER BY SUM(S.sold_quantity) DESC) AS 'Rank_Order'
FROM dim_product P JOIN fact_sales_monthly S
ON P.product_code = S.product_code
WHERE S.fiscal_year = 2021
GROUP BY P.division, S.product_code, P.product)

SELECT * FROM x
WHERE Rank_Order IN (1,2,3) ORDER BY division, Rank_Order
```

Output

division	product_code	product	Total_sold_quantity	Rank_Order
N & S	A6720160103	AQ Pen Drive 2 IN 1	701373	1
N & S	A6818160202	AQ Pen Drive DRC	688003	2
N & S	A6819160203	AQ Pen Drive DRC	676245	3
P & A	A2319150302	AQ Gamers Ms	428498	1
P & A	A2520150501	AQ Maxima Ms	419865	2
P & A	A2520150504	AQ Maxima Ms	419471	3
PC	A4218110202	AQ Digit	17434	1
PC	A4319110306	AQ Velocity	17280	2
PC	A4218110208	AQ Digit	17275	3

VISUAL 10



Insights

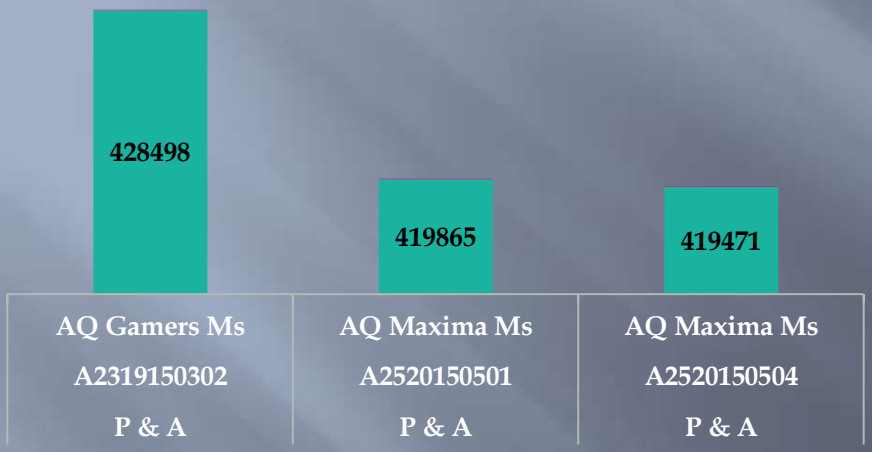
• The top three products: ”AQ Pen Drive 2 IN 1”, ”AQ Pen Drive DRC” and another variant of “AQ Pen Drive DRC”

• Strong consumer preference for pen drive and related items in this division.

• The division’s leadership in the market segment, indicating growth potential.

• Efficient inventory management is crucial for sustained success.

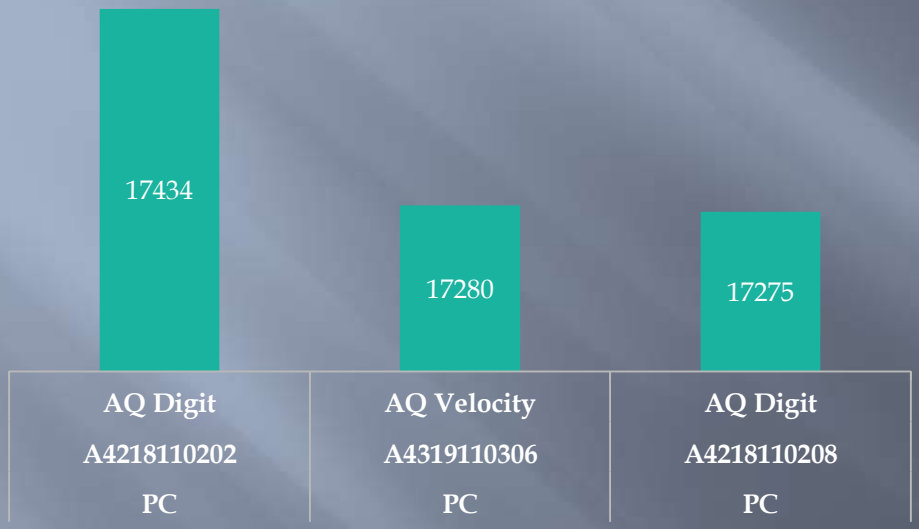
VISUAL 10



Insights

- The Best-Selling Product is “AQ Gamers MS ”
- This Division specializes in Gaming related products, appealing to specific customer niche.
- Efficient inventory management is essential to meet customer demand.
- Continuously promotes and the brand top product to sustain success.

VISUAL 10



Insights

- The Best-Selling product in the “PC” division is “AQ Digit” with two variants followed by “AQ velocity”
- The division specialize in PC-Related products, indicating focus on computer niche.
- Efficient inventory management is essential to meet customer demand.
- Ongoing branding and marketing efforts are important to maintain success.

THANK YOU