# ATLIQ HARDWARES CONSUMER GOODS -SALES INSIGTS

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### INTRODUCTION

Atliq Hardwares (imaginary company) is one of the leading computer hardware producers in India and well expanded in other countries too.

However, the management noticed that they do not get enough insights to make quick and smart data-informed decisions.

## **OBJECTIVE**

- 1. Develop SQL queries to address specific business questions and challenges.
- 2. Analyze data effectively to derive actionable insights and recommendations.

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	

What is the percentage of unique product increase in 2021 vs. 2020?

unique_products_2020	unique_products_2021	percentage_chg
245	334	36.3265

```
with ctel as (
                                                                                                   product_count
                                                                                350
select count(distinct product_code) as unique_products_2020
from fact_sales_monthly
                                                                                    89 , 36.32%
where fiscal_year = 2020
cte2 as (
                                                                                250
select count(distinct product_code) as unique_products_2021
from fact_sales_monthly
                                                                                200
where fiscal_year = 2021
                                                                                150
select *,
(cte2.unique_products_2021-
                                                                                100
ctel.unique_products_2020)*I00/ctel.unique_products_2020 as
percentage_chg
0
                                                                                           2020
                                                                                                                2021
```

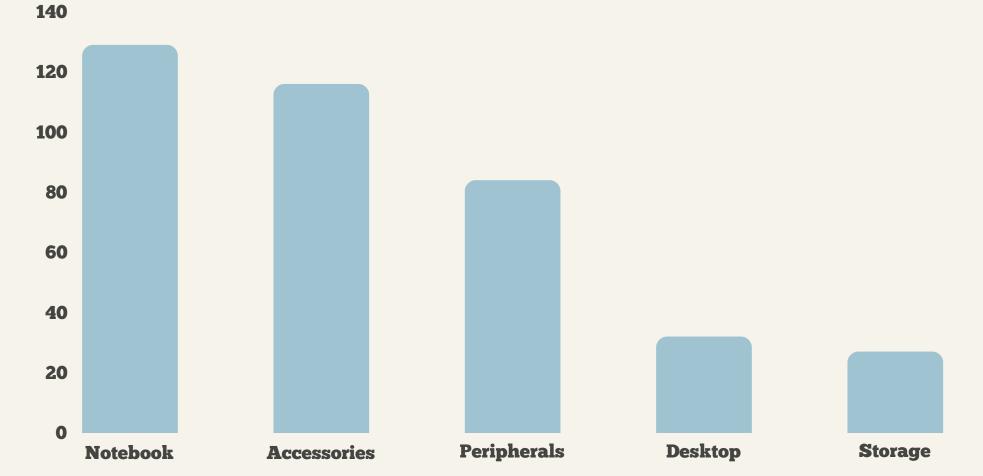
Networking

#### Request 3

Provide a report with all the unique product counts for each segment and sort them in descending order of product counts.

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

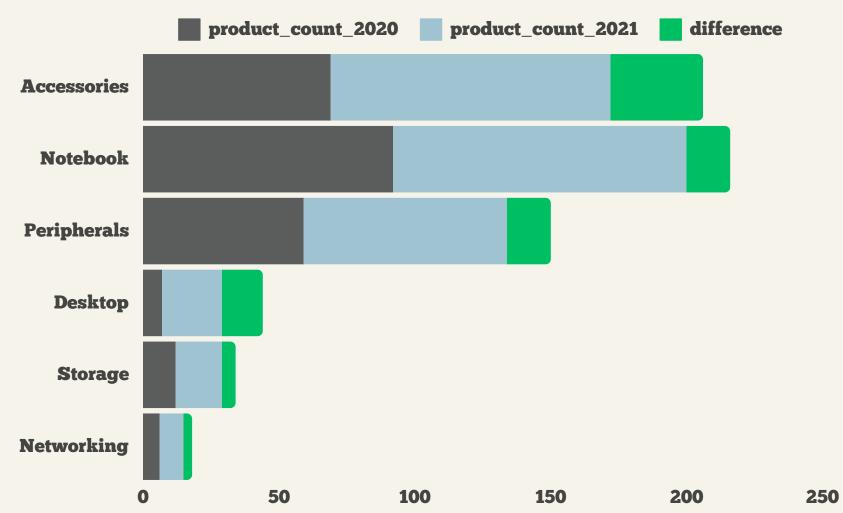
select segment,
 count(distinct product\_code) as product\_count
from dim\_product
group by segment
order by product\_count desc;



Which segment had the most increase in unique products in 2021 vs 2020?

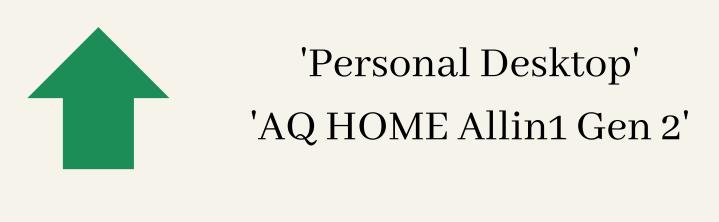
```
with ctel as (
select dp.segment,count(distinct dp.product_code) as product_count_2020
from fact_sales_monthly fs
join dim_product dp
on dp.product_code = fs.product_code
where fs.fiscal_year = 2020
group by dp.segment
cte2 as (
select dp.segment,count(distinct dp.product_code) as product_count_2021
from fact_sales_monthly fs
join dim_product dp
on dp.product_code = fs.product_code
where fs.fiscal_year = 2021
group by dp.segment
select ctel.segment,
ctel.product_count_2020,
   cte2.product_count_2021,
 (cte2.product_count_2021 - cte1.product_count_2020) as difference
from ctel
join cte2
using (segment)
order by difference desc;
```

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



Get the products that have the highest and lowest manufacturing costs.

```
select product_code,
product,manufacturing_cost
from fact_manufacturing_cost fm
join dim_product dp
using (product_code)
where manufacturing_cost = (
   select max(manufacturing_cost)
   from fact_manufacturing_cost )
or manufacturing_cost = (
   select min(manufacturing_cost)
   from fact_manufacturing_cost );
```





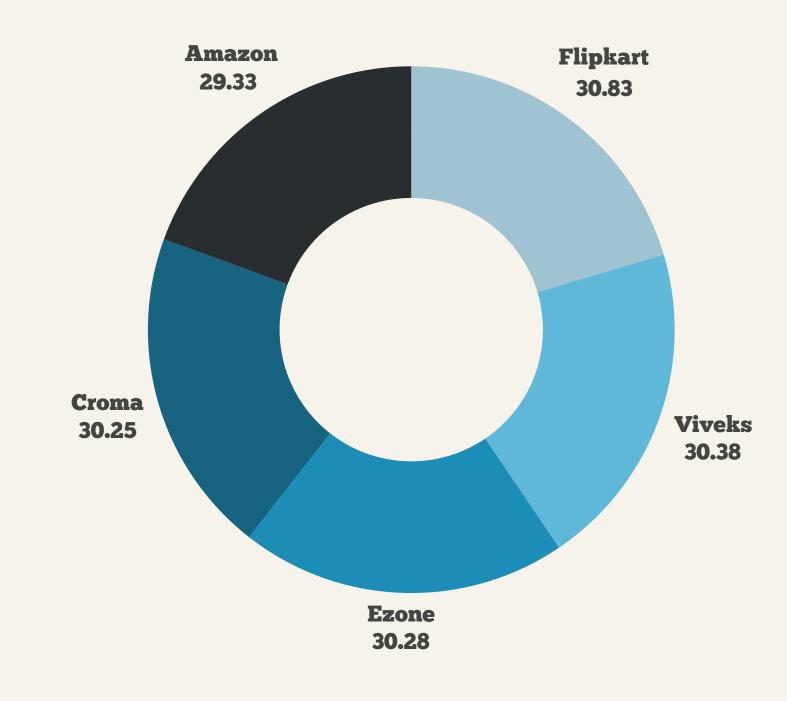
'Mouse' 'AQ Master wired x1 Ms''AQ

product_co	product	manuf ^
		0.8920
A6120110206	AQ HOME Allin1 Gen 2	240.5364

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

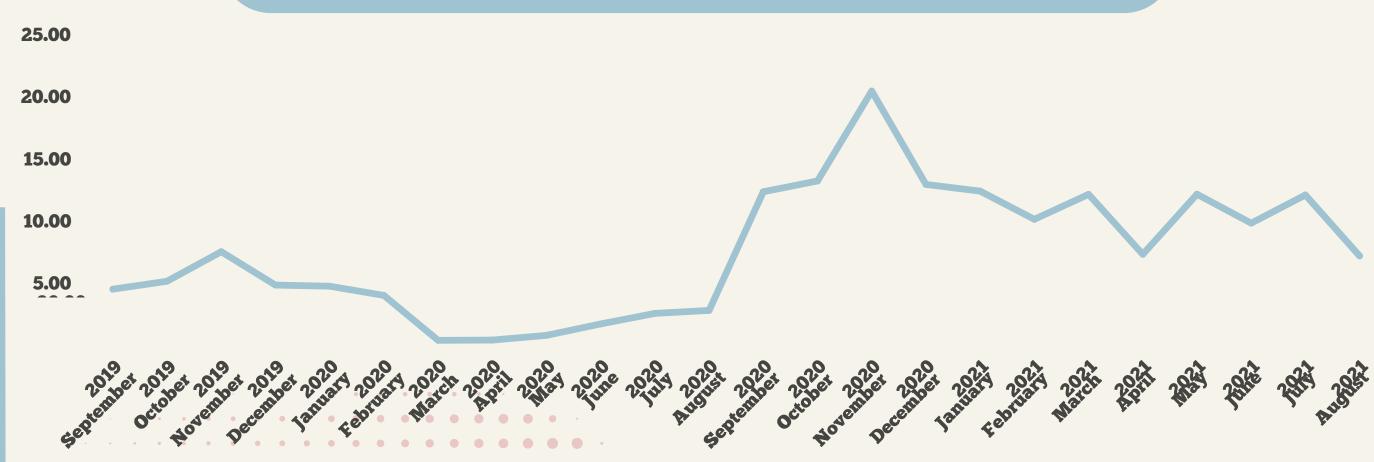
```
select fpr.customer_code,
dc.customer,
round(avg(fpr.pre_invoice_discount_pct),3) as average_discount_percentage
FROM fact_pre_invoice_deductions fpr
join dim_customer dc
using (customer_code)
where fiscal_year = 2021 and market = 'India'
group by fpr.customer_code,dc.customer
order by average_discount_percentage desc
limit 5;
```

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



Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month

```
select monthname(fs.date) as month, Year(fs.date) as year,
    round(sum(fs.sold_quantity * fg.gross_price)/1000000,2) as gross_sales_mln
from fact_sales_monthly fs
join fact_gross_price fg
using (product_code,fiscal_year)
join dim_customer dc
using (customer_code)
where dc.customer = 'Atliq Exclusive'
group by month,year
order by year;
```

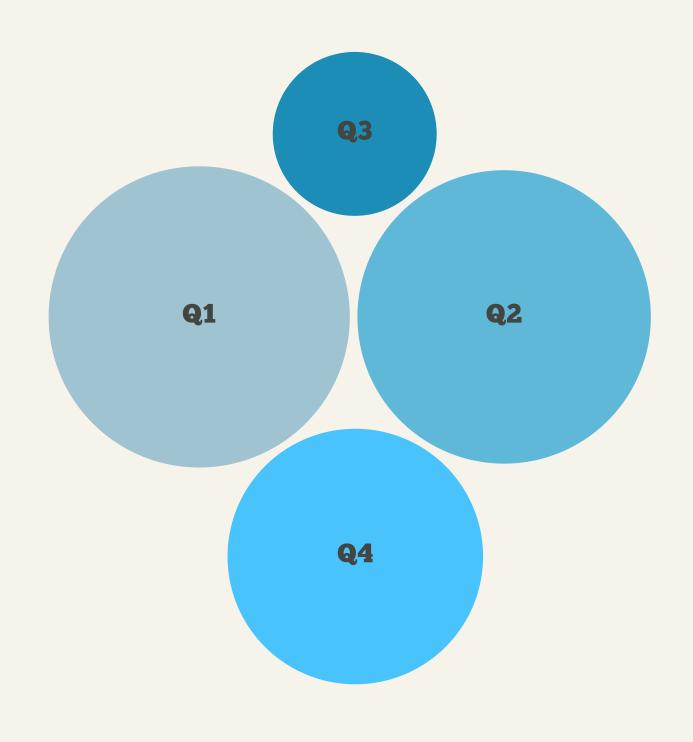


month	year	gross
September	2019	4.50
October	2019	5.14
November	2019	7.52
December	2019	4.83
January	2020	4.74
February	2020	4.00
March	2020	0.38
April	2020	0.40
Мау	2020	0.78
June	2020	1.70
July	2020	2.55
August	2020	2.79
September	2020	12.35
October	2020	13.22
November	2020	20.46
December	2020	12.94
January	2021	12.40
February	2021	10.13
March	2021	12.14
April	2021	7.31
Мау	2021	12.15
June	2021	9.82
July	2021	12.09
August	2021	7.18

#### In which quarter of 2020, got the maximum total\_sold\_quantity?

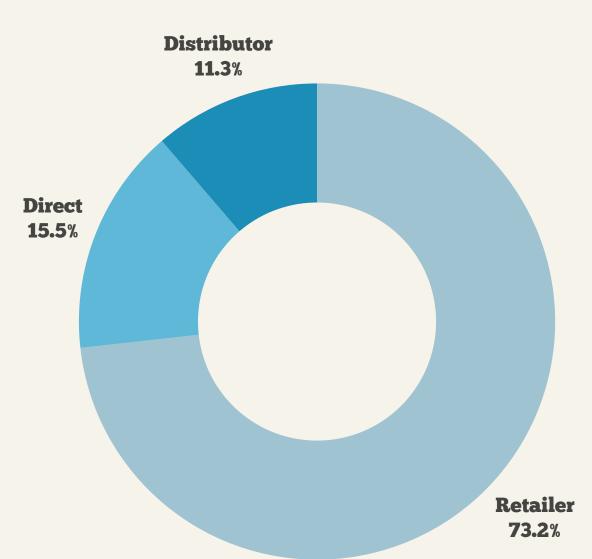
```
select
case
when month(date) in (9,10,11) then 'Q1'
when month(date) in (12,1,2) then 'Q2'
when month(date) in (3,4,5) then 'Q3'
else 'Q4'
end as quarter,
sum(sold_quantity) as total_sold_quantity
from fact_sales_monthly
where fiscal_year = 2020
group by quarter
order by total_sold_quantity desc;
```

quarter	total_sold_c
Q1	7005619
Q2	6649642
Q4	5042541
Q3	2075087



Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution

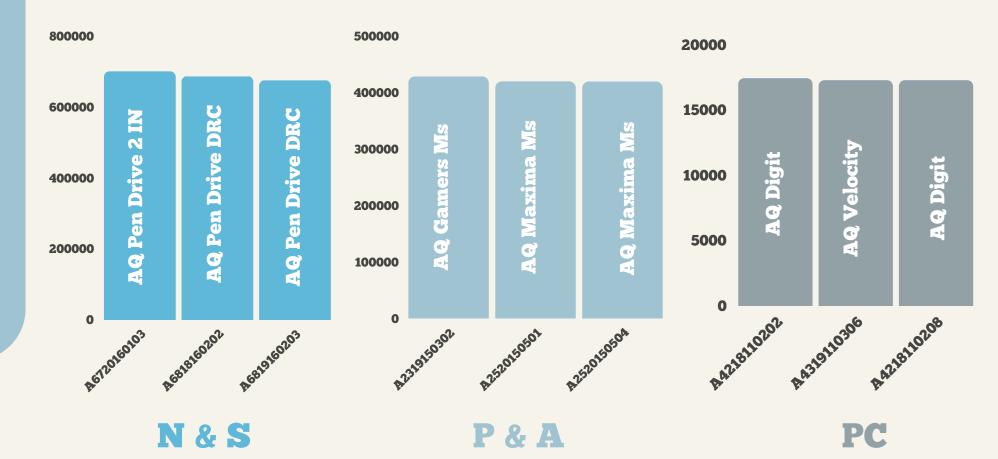
```
with ctel as(
select dc.channel,
 round(sum(fs.sold_quantity * fg.gross_price)/1000000,2) as
gross_sales_mln
from fact_sales_monthly fs
                                channel
                                                  gross... pct
join fact_gross_price fg
using (product_code,fiscal_year)
                                                  1219.08 73.23
                                Retailer
join dim_customer dc
using (customer_code)
                                Direct
                                                               15.47
                                                  257.53
where fs.fiscal_year = 2021
 group by channel
                                Distributor
                                                 188.03
                                                               11.30
select *,
round(gross_sales_mln*100/sum(gross_sales_mln) over(),2) as pct
from ctel
order by gross_sales_mln desc;
```



Get the Top 3 products in each division that have a high total\_sold\_quantity in the fiscal\_year 2021

```
with ctel as (
select dp.division,fs.product_code,
 dp.product, sum(fs.sold_quantity) as total_sold_quantity
from fact_sales_monthly fs
join dim_product dp
using (product_code)
where fiscal_year = 2021
group by dp.division, fs.product_code, dp.product
cte2 as (
select *,
 Dense_rank() over(partition by division order by
total_sold_quantity desc) as rank_order
from ctel
select * from cte2
where rank_order <= 3
```

division	product_code	product	total_sold_quan	rank_o
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



# THANKS FOR WATCHING

- THARUN V