



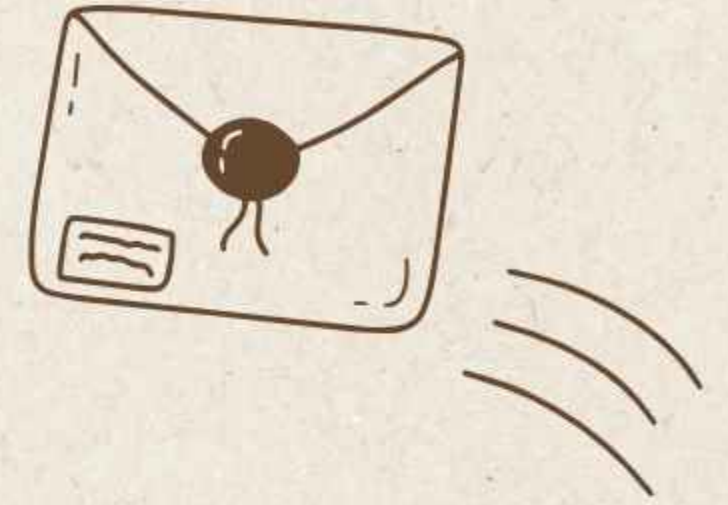
Finance Analytics

AtliQ Hardware





Introduction



**Problem
Statement &
Project Overview**



**Reports,
Outcome &
Visualization**



**Insights and
Conclusion**

The Problem Statement

AtliQ Hardware is currently facing performance challenges due to the increasing size and complexity of its Excel files. To address this, the company has formed a dedicated team of data analysts to leverage MySQL for extracting valuable insights and enhancing operational efficiency.

Project Overview

The scope of this project is conducting an in-depth analysis of the dataset provided by AtliQ Hardware. The Primary goal is to derive actionable insights regarding sales performance, Market dynamics, Customer behaviour.





Business Questions

1. How many customers are there?
2. how many products are there?
3. how many markets are there?
4. how many unique region are there?



5. how many divisions are there?
6. product categories, segment and variant
7. unique platforms and channels

GETTING FAMILIAR WITH DATA

-- how many customers are there?

- `select count(distinct customer) as No_of_customers from dim_customer;`

how many products are there?

- `select count(distinct product) as No_of_products from dim_product;`

how many markets are there?

- `select count(distinct market) as No_of_market from dim_customer;`

how many unique region are there?

- `select distinct region from dim_customer;`

how many divisions are there ?

- `select distinct division from dim_product;`

product categories, segment and variant

- `select distinct segment from dim_product;`
- `select distinct category from dim_product;`
- `select distinct variant from dim_product;`

unique platforms and channels of atliq hardware

- `select distinct platform from dim_customer;`
- `select distinct channel from dim_customer;`

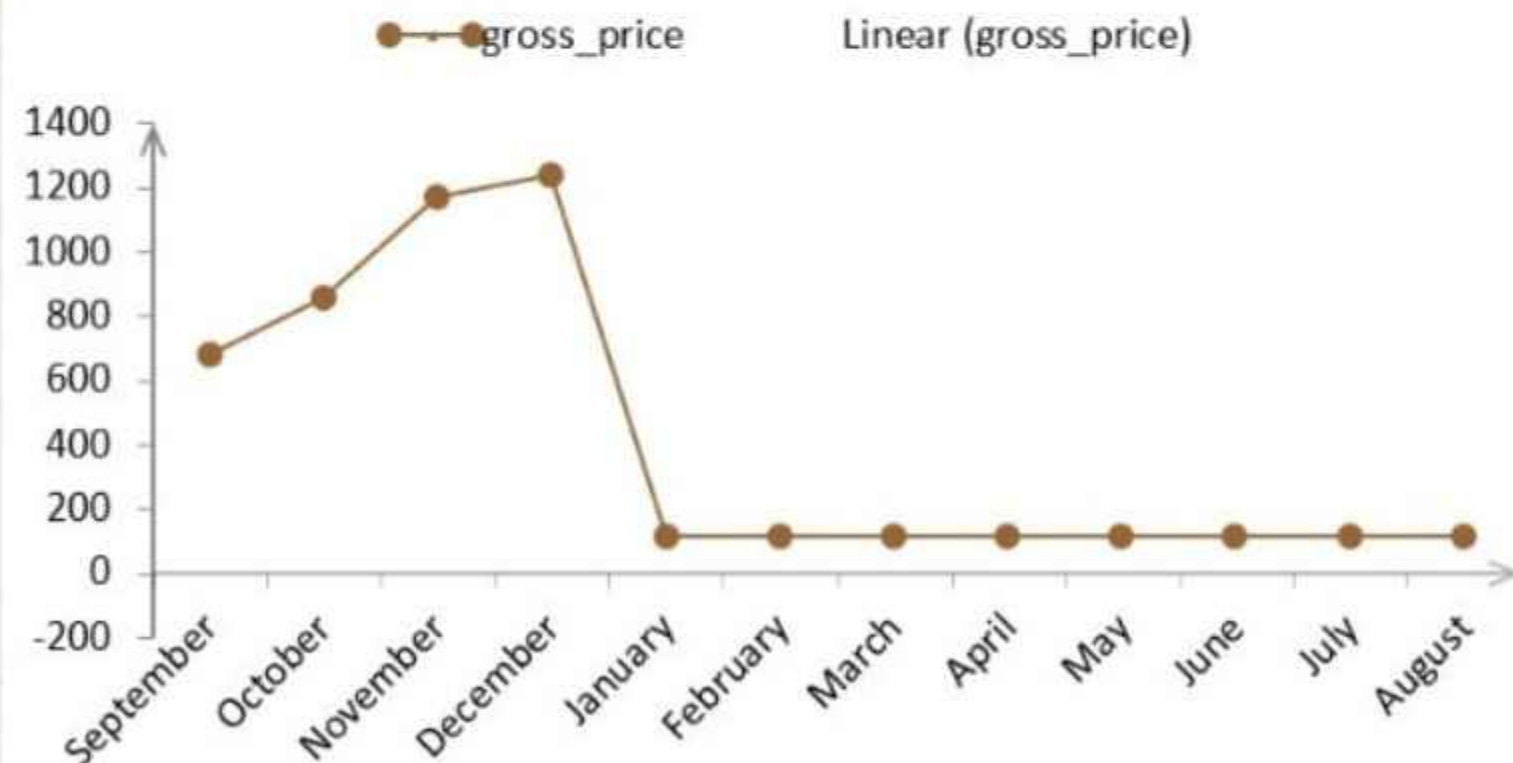


yearly sales & How does the monthly gross sales trend over the last two fiscal years?

```
# 1. yearly sales & How does the monthly gross sales trend over the last two fiscal years?  
• select  
    fiscal_month,  
    round(sum(total_gross_price)/1000000,2) as gross_price  
from net_sales  
where fiscal_year in (2021,2022)  
group by fiscal_month;
```

	fiscal_month	gross_price
▶	September	683.06
	October	861.52
	November	1173.86
	December	1241.36
	January	120.95
	February	117.17
	March	122.18
	April	122.38
	May	120.34
	June	116.56
	July	122.49
	August	121.47

Gross Margin Monthly Chart for Last two years





What is the region-wise contribution to total sales revenue?

	region	fiscal_year	total_net_sales
▶	APAC	2022	882.68
	APAC	2021	441.98
	APAC	2020	147.98
	APAC	2019	71.33
	APAC	2018	20.67
	EU	2022	362.08
	EU	2021	200.77
	EU	2020	55.79
	EU	2019	17.22
	EU	2018	1.75
	LATAM	2022	6.04
	LATAM	2021	3.16
	LATAM	2020	2.00
	LATAM	2019	0.83
	LATAM	2018	0.20
	NA	2022	392.10
	NA	2021	177.94

What is the region-wise contribution to total sales revenue?

- ```
select c.region,n.fiscal_year,
 round(sum(net_sales)/1000000,2) as total_net_sales
from net_sales n
join dim_customer c
on c.customer_code = n.customer_code
group by c.region, n.fiscal_year
order by c.region, n.fiscal_year desc;
```



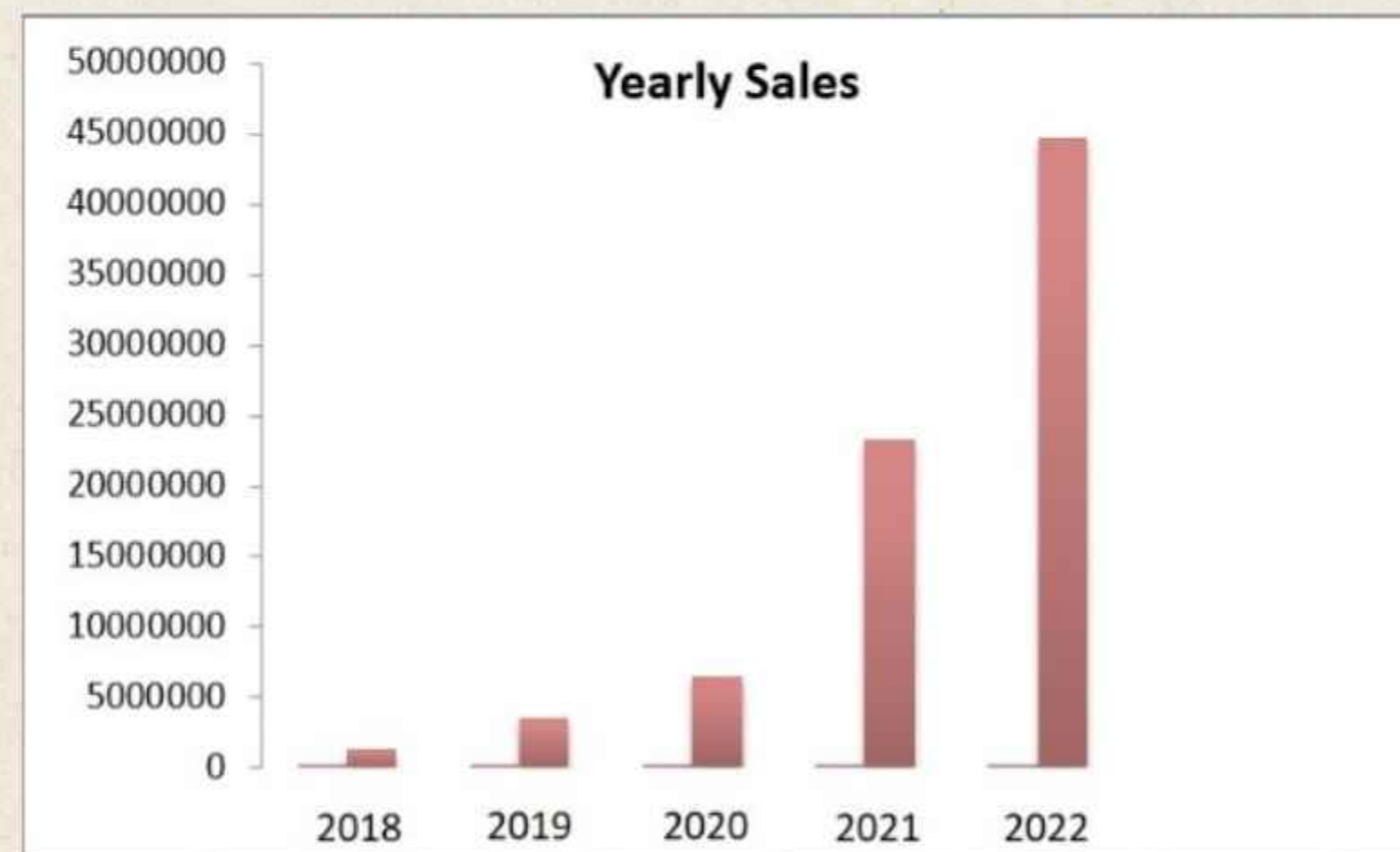




## yearly total sales

```
yearly total sales
• SELECT
 get_fiscal_year(date) as fiscal_year,
 round(sum(g.gross_price * s.sold_quantity),2) as yearly_sales
FROM fact_sales_monthly s
join fact_gross_price g
on
 g.product_code = s.product_code and
 g.fiscal_year = get_fiscal_year(s.date)
where customer_code = '90002002'
group by get_fiscal_year(date)
order by fiscal_year;
```

|   | fiscal_year | yearly_sales |
|---|-------------|--------------|
| ▶ | 2018        | 1324097.44   |
|   | 2019        | 3555079.02   |
|   | 2020        | 6502181.91   |
|   | 2021        | 23216512.22  |
|   | 2022        | 44638198.92  |







Generate a report detailing the individual product sales for cromax india customer throughout the fiscal year 2021

|   | date       | product_code | product                                         | variant      | sold_quantity | gross_price_per_item | total_gross |
|---|------------|--------------|-------------------------------------------------|--------------|---------------|----------------------|-------------|
| ▶ | 2020-09-01 | A0118150101  | AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 R... | Standard     | 202           | 19.0573              | 3849.57     |
|   | 2020-09-01 | A0118150102  | AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 R... | Plus         | 162           | 21.4565              | 3475.95     |
|   | 2020-09-01 | A0118150103  | AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 R... | Premium      | 193           | 21.7795              | 4203.44     |
|   | 2020-09-01 | A0118150104  | AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 R... | Premium Plus | 146           | 22.9729              | 3354.04     |
|   | 2020-09-01 | A0219150201  | AQ WereWolf NAS Internal Hard Drive HDD – 8.... | Standard     | 149           | 23.6987              | 3531.11     |
|   | 2020-09-01 | A0219150202  | AQ WereWolf NAS Internal Hard Drive HDD – 8.... | Plus         | 107           | 24.7312              | 2646.24     |
|   | 2020-09-01 | A0220150203  | AQ WereWolf NAS Internal Hard Drive HDD – 8.... | Premium      | 123           | 23.6154              | 2904.69     |
|   | 2020-09-01 | A0320150301  | AQ Zion Saga                                    | Standard     | 146           | 23.7223              | 3463.46     |
|   | 2020-09-01 | A0321150302  | AQ Zion Saga                                    | Plus         | 236           | 27.1027              | 6396.24     |
|   | 2020-09-01 | A0321150303  | AQ Zion Saga                                    | Premium      | 137           | 28.0059              | 3836.81     |
|   | 2020-09-01 | A0418150103  | AQ Mforce Gen X                                 | Standard 3   | 23            | 19.5235              | 449.04      |
|   | 2020-09-01 | A0418150104  | AQ Mforce Gen X                                 | Plus 1       | 82            | 19.9239              | 1633.76     |
|   | 2020-09-01 | A0418150105  | AQ Mforce Gen X                                 | Plus 2       | 86            | 20.0766              | 1726.59     |
|   | 2020-09-01 | A0418150106  | AQ Mforce Gen X                                 | Plus 3       | 48            | 19.9365              | 956.95      |
|   | 2020-09-01 | A0519150201  | AQ Mforce Gen Y                                 | Standard 1   | 138           | 22.3984              | 3090.98     |
|   | 2020-09-01 | A0519150202  | AQ Mforce Gen Y                                 | Standard 2   | 72            | 24.9298              | 1794.95     |

```
select
 s.date, s.fiscal_year,
 s.customer_code, c.market, p.product_code,
 p.product, p.variant, s.sold_quantity,
 g.gross_price as gross_price_per_item,
 round(g.gross_price * s.sold_quantity, 2) as total_gross_price,
 pre.pre_invoice_discount_pct
from fact_sales_monthly s
join dim_customer c
 on c.customer_code = s.customer_code
join dim_product p
 on p.product_code = s.product_code
join fact_gross_price g
 on g.product_code = s.product_code and
 g.fiscal_year = s.fiscal_year
join fact_pre_invoice_deductions pre
 on pre.customer_code = s.customer_code and
 pre.fiscal_year = s.fiscal_year
where
 get_fiscal_year(s.date) = 2021 and
 s.customer_code = 90002002;
```





## gross sales report monthly

```
#gross sales report monthly
select s.date,
 sum(round(g.gross_price * s.sold_quantity,2)) as total_gross_price
from fact_sales_monthly s
join fact_gross_price g
on g.product_code = s.product_code and
 g.fiscal_year = get_fiscal_year(s.date)
where s.customer_code = 90002002
group by s.date;
```

|   | date       | total_gross_price |
|---|------------|-------------------|
| ▶ | 2017-09-01 | 122407.57         |
|   | 2017-10-01 | 162687.56         |
|   | 2017-12-01 | 245673.84         |
|   | 2018-01-01 | 127574.73         |
|   | 2018-02-01 | 144799.54         |
|   | 2018-04-01 | 130643.92         |
|   | 2018-05-01 | 139165.06         |
|   | 2018-06-01 | 125735.36         |
|   | 2018-08-01 | 125409.90         |
|   | 2018-09-01 | 343337.14         |
|   | 2018-10-01 | 440562.10         |
|   | 2018-12-01 | 653944.72         |
|   | 2019-01-01 | 359025.06         |
|   | 2019-02-01 | 356607.19         |
|   | 2019-04-01 | 379549.74         |
|   | 2019-05-01 | 340152.29         |
|   | 2019-06-01 | 343792.08         |





## TOP 5 MARKETS IN THE YEAR 2021

```
3
5 # TOP 5 MARKETS IN THE YEAR 2021
7 • SELECT market,
8 round(sum(net_sales)/1000000,2) as net_sales
9 FROM gdb0041.net_sales
10 where fiscal_year = 2021
11 group by market
12 order by net_sales desc limit 5;
```

|   | market         | net_sales |
|---|----------------|-----------|
| ▶ | India          | 210.67    |
|   | USA            | 132.05    |
|   | South Korea    | 64.01     |
|   | Canada         | 45.89     |
|   | United Kingdom | 44.73     |







## TOP 5 CUSTOMERS BY NETSALES



```
#TOP 5 CUSTOMERS BY NETSALES
select c.customer,
 round(sum(net_sales)/1000000,2) as net_sales_mln
from dim_customer c
join net_sales n
on n.customer_code = c.customer_code
where n.fiscal_year = 2021 and c.market = "india"
group by c.customer
order by net_sales_mln desc limit 5 ;
```

|   | customer          | net_sales_mln |
|---|-------------------|---------------|
| ▶ | Amazon            | 30.00         |
|   | Atliq Exclusive   | 23.98         |
|   | Flipkart          | 12.96         |
|   | Electricalsociety | 12.31         |
|   | Propel            | 11.86         |





get top n products n each division  
by their quantity sold



```
get top n products n each division by their quantity sold
with cte1 as (
 select division, product,
 sum(sold_quantity) as total_qty
 from net_sales
 where fiscal_year = 2021
 group by division, product
),
cte2 as(
 select *,
 dense_rank() over(partition by division order by total_qty desc) as drnk
 from cte1
)
select * from cte2 where drnk <=3;
```

|   | division | product                  | total_qty | drnk |
|---|----------|--------------------------|-----------|------|
| ▶ | N & S    | AQ Pen Drive DRC         | 2034569   | 1    |
|   | N & S    | AQ Digit SSD             | 1240149   | 2    |
|   | N & S    | AQ Clx1                  | 1238683   | 3    |
|   | P & A    | AQ Gamers Ms             | 2477098   | 1    |
|   | P & A    | AQ Maxima Ms             | 2461991   | 2    |
|   | P & A    | AQ Master wireless x1 Ms | 2448784   | 3    |
|   | PC       | AQ Digit                 | 135092    | 1    |
|   | PC       | AQ Gen Y                 | 135031    | 2    |
|   | PC       | AQ Elite                 | 134431    | 3    |







Thank  
You

