# About AtliQ Hardwares & Problem Statement



- Atliq Hardwares, a leading hardware company specializing in PCs, printers, mice and computers with a global reach.
- The expanding size of Excel files has led to performance problems, resulting in unresponsiveness and inefficiency. AtliQ Hardware has launched a project to tackle this issue by assembling a team of data analysts. They will utilize MySQL as their database management system to extract meaningful insight from the data. These insights will empower the company to enhance decision-making and optimize operations, ultimately boosting overall performance.



## **Croma India Product Wise Sales Report for Fiscal Year 2021**



```
SELECT
    s.date,
   p.product code,
    p.product,
    p.variant,
    ROUND(g.gross price, 2) AS gross price,
    ROUND(s.sold_quantity * g.gross_price,2) AS gross_price_total
FROM fact sales monthly s
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 = get fiscal year(s.date)
WHERE
    customer code = 90002002 AND
    get fiscal year(date) = 2021
ORDER BY date ASC
limit 1000000
```

#### SQL Query



date         product_code         product         variant         gross_price         gross_price_total           2020-09-01         A0118150101         AQ Dracula HDD         Standard         19.06         3849.57           2020-09-01         A0118150102         AQ Dracula HDD         Plus         21.46         3475.95           2020-09-01         A0118150103         AQ Dracula HDD         Premium         21.78         4203.44           2020-09-01         A0118150104         AQ Dracula HDD         Premium Plus         22.97         3354.04           2020-09-01         A0219150201         AQ WereWolf N         Standard         23.70         3531.11           2020-09-01         A0220150203         AQ WereWolf N         Premium         23.62         2904.69           2020-09-01         A0320150301         AQ WereWolf N         Premium         23.62         2904.69           2020-09-01         A0321150302         AQ WereWolf N         Premium         23.62         2904.69           2020-09-01         A0321150303         AQ Win Saga         Plus         27.10         6396.24           2020-09-01         A0418150103         AQ Mforce Gen X         Plus 1         19.92         1633.76           2020-0						
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2020-09-01         A0219150201         AQ WereWolf N         Standard         23.70         3531.11           2020-09-01         A0219150202         AQ WereWolf N         Plus         24.73         2646.24           2020-09-01         A0220150203         AQ WereWolf N         Premium         23.62         2904.69           2020-09-01         A0320150301         AQ Zion Saga         Standard         23.72         3463.46           2020-09-01         A0321150302         AQ Zion Saga         Plus         27.10         6396.24           2020-09-01         A0321150303         AQ Zion Saga         Premium         28.01         3836.81           2020-09-01         A0418150103         AQ Mforce Gen X         Standard 3         19.52         449.04           2020-09-01         A0418150104         AQ Mforce Gen X         Plus 1         19.92         1633.76           2020-09-01         A0418150105         AQ Mforce Gen X         Plus 2         20.08         1726.59           2020-09-01         A0418150106         AQ Mforce Gen X         Plus 3         19.94         956.95           2020-09-01         A0519150201         AQ Mforce Gen Y         Standard 1         22.40         3090.98           2020-09-01         A0	2020-09-01	A0118150103	AQ Dracula HDD	Premium	21.78	4203.44
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2020-09-01         A0320150301         AQ Zion Saga         Standard         23.72         3463.46           2020-09-01         A0321150302         AQ Zion Saga         Plus         27.10         6396.24           2020-09-01         A0321150303         AQ Zion Saga         Premium         28.01         3836.81           2020-09-01         A0418150103         AQ Mforce Gen X         Standard 3         19.52         449.04           2020-09-01         A0418150104         AQ Mforce Gen X         Plus 1         19.92         1633.76           2020-09-01         A0418150105         AQ Mforce Gen X         Plus 2         20.08         1726.59           2020-09-01         A0418150106         AQ Mforce Gen X         Plus 3         19.94         956.95           2020-09-01         A0519150201         AQ Mforce Gen Y         Standard 1         22.40         3090.98           2020-09-01         A0519150202         AQ Mforce Gen Y         Standard 2         24.93         1794.95           2020-09-01         A0519150203         AQ Mforce Gen Y         Standard 3         26.59         1010.31           2020-09-01         A0519150204         AQ Mforce Gen Y         Plus 2         29.70         861.32           2020-09-01 <td< td=""><td>2020-09-01</td><td>A0219150202</td><td>AQ WereWolf N</td><td>Plus</td><td>24.73</td><td>2646.24</td></td<>	2020-09-01	A0219150202	AQ WereWolf N	Plus	24.73	2646.24
2020-09-01         A0321150302         AQ Zion Saga         Plus         27.10         6396.24           2020-09-01         A0321150303         AQ Zion Saga         Premium         28.01         3836.81           2020-09-01         A0418150103         AQ Mforce Gen X         Standard 3         19.52         449.04           2020-09-01         A0418150104         AQ Mforce Gen X         Plus 1         19.92         1633.76           2020-09-01         A0418150105         AQ Mforce Gen X         Plus 2         20.08         1726.59           2020-09-01         A0418150106         AQ Mforce Gen X         Plus 3         19.94         956.95           2020-09-01         A0519150201         AQ Mforce Gen Y         Standard 1         22.40         3090.98           2020-09-01         A0519150202         AQ Mforce Gen Y         Standard 2         24.93         1794.95           2020-09-01         A0519150203         AQ Mforce Gen Y         Standard 3         26.59         1010.31           2020-09-01         A0519150204         AQ Mforce Gen Y         Plus 1         26.11         3890.11           2020-09-01         A0519150205         AQ Mforce Gen Y         Plus 2         29.70         861.32           2020-09-01 <t< td=""><td>2020-09-01</td><td>A0220150203</td><td>AQ WereWolf N</td><td>Premium</td><td>23.62</td><td>2904.69</td></t<>	2020-09-01	A0220150203	AQ WereWolf N	Premium	23.62	2904.69
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2020-09-01       A0418150104       AQ Mforce Gen X       Plus 1       19.92       1633.76         2020-09-01       A0418150105       AQ Mforce Gen X       Plus 2       20.08       1726.59         2020-09-01       A0418150106       AQ Mforce Gen X       Plus 3       19.94       956.95         2020-09-01       A0519150201       AQ Mforce Gen Y       Standard 1       22.40       3090.98         2020-09-01       A0519150202       AQ Mforce Gen Y       Standard 2       24.93       1794.95         2020-09-01       A0519150203       AQ Mforce Gen Y       Standard 3       26.59       1010.31         2020-09-01       A0519150204       AQ Mforce Gen Y       Plus 1       26.11       3890.11         2020-09-01       A0519150205       AQ Mforce Gen Y       Plus 2       29.70       861.32         2020-09-01       A0519150206       AQ Mforce Gen Y       Plus 3       31.24       874.83         2020-09-01       A0519150207       AQ Mforce Gen Y       Premium 1       32.44       5547.70         2020-09-01       A0519150208       AQ Mforce Gen Y       Premium 2       30.58       3608.63         2020-09-01       A0619150301       AQ Mforce Gen Z       Standard 1       30.47       1553.95 <td>2020-09-01</td> <td>A0321150303</td> <td>AQ Zion Saga</td> <td>Premium</td> <td>28.01</td> <td>3836.81</td>	2020-09-01	A0321150303	AQ Zion Saga	Premium	28.01	3836.81
2020-09-01       A0418150105       AQ Mforce Gen X       Plus 2       20.08       1726.59         2020-09-01       A0418150106       AQ Mforce Gen X       Plus 3       19.94       956.95         2020-09-01       A0519150201       AQ Mforce Gen Y       Standard 1       22.40       3090.98         2020-09-01       A0519150202       AQ Mforce Gen Y       Standard 2       24.93       1794.95         2020-09-01       A0519150203       AQ Mforce Gen Y       Standard 3       26.59       1010.31         2020-09-01       A0519150204       AQ Mforce Gen Y       Plus 1       26.11       3890.11         2020-09-01       A0519150205       AQ Mforce Gen Y       Plus 2       29.70       861.32         2020-09-01       A0519150206       AQ Mforce Gen Y       Plus 3       31.24       874.83         2020-09-01       A0519150207       AQ Mforce Gen Y       Premium 1       32.44       5547.70         2020-09-01       A0519150208       AQ Mforce Gen Y       Premium 2       30.58       3608.63         2020-09-01       A0619150301       AQ Mforce Gen Z       Standard 1       30.47       1553.95	2020-09-01	A0418150103	AQ Mforce Gen X	Standard 3	19.52	449.04
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2020-09-01     A0519150205     AQ Mforce Gen Y     Plus 2     29.70     861.32       2020-09-01     A0519150206     AQ Mforce Gen Y     Plus 3     31.24     874.83       2020-09-01     A0519150207     AQ Mforce Gen Y     Premium 1     32.44     5547.70       2020-09-01     A0519150208     AQ Mforce Gen Y     Premium 2     30.58     3608.63       2020-09-01     A0619150301     AQ Mforce Gen Z     Standard 1     30.47     1553.95	2020-09-01	A0519150203	AQ Mforce Gen Y	Standard 3	26.59	1010.31
2020-09-01     A0519150206     AQ Mforce Gen Y     Plus 3     31.24     874.83       2020-09-01     A0519150207     AQ Mforce Gen Y     Premium 1     32.44     5547.70       2020-09-01     A0519150208     AQ Mforce Gen Y     Premium 2     30.58     3608.63       2020-09-01     A0619150301     AQ Mforce Gen Z     Standard 1     30.47     1553.95	2020-09-01	A0519150204	AQ Mforce Gen Y	Plus 1	26.11	3890.11
2020-09-01     A0519150207     AQ Mforce Gen Y     Premium 1     32.44     5547.70       2020-09-01     A0519150208     AQ Mforce Gen Y     Premium 2     30.58     3608.63       2020-09-01     A0619150301     AQ Mforce Gen Z     Standard 1     30.47     1553.95	2020-09-01	A0519150205	AQ Mforce Gen Y	Plus 2	29.70	861.32
2020-09-01 A0519150208 AQ Mforce Gen Y Premium 2 30.58 3608.63 2020-09-01 A0619150301 AQ Mforce Gen Z Standard 1 30.47 1553.95	2020-09-01	A0519150206	AQ Mforce Gen Y	Plus 3	31.24	874.83
2020-09-01 A0619150301 AQ Mforce Gen Z Standard 1 30.47 1553.95	2020-09-01	A0519150207	AQ Mforce Gen Y	Premium 1	32.44	5547.70
	2020-09-01	A0519150208	AQ Mforce Gen Y	Premium 2	30.58	3608.63
2020-09-01 A0619150302 AQ Mforce Gen Z Standard 2 34.10 6512.58	2020-09-01	A0619150301	AQ Mforce Gen Z	Standard 1	30.47	1553.95
	2020-09-01	A0619150302	AQ Mforce Gen Z	Standard 2	34.10	6512.58

### **Monthly Total Gross Sales Report for Croma India**



**SQL Query** 



months	total_gross_price
September	122407.56
October	162687.57
December	245673.80
January	127574.74
February	144799.52
April	130643.90
May	139165.10
June	125735.38
August	125409.88
September	343337.17
October	440562.08
December	653944.75
January	359025.02
February	356607.17
April	379549.69
May	340152.23
June	343792.04
August	338108.88
September	808250.44
October	1092622.20
December	1488174.02
January	812929.75

## **Yearly Gross Sales Report for Croma India**



**SQL Query** 

fiscal_year	yearly_sales(million)
2018	1.32
2019	3.56
2020	6.50
2021	23.22
2022	44.64



## Top Market for Financial Year 2021



```
SELECT market,

ROUND(SUM(net_sales)/1000000,2) AS net_sales_mln

FROM net_sales s

WHERE fiscal_year = 2021

GROUP BY market

ORDER BY net_sales_mln DESC

LIMIT 5;
```

**SQL Query** 

market	net_sales_mln
India	210.67
USA	132.05
South Korea	64.01
Canada	45.89
United Kingdom	44.73



## **Top Product for Financial Year 2021**



**SQL Query** 

product	net_sales_mln
AQ BZ Allin1	33.75
AQ Qwerty	27.84
AQ Trigger	26.95
AQ Gen Y	23.58
AQ Maxima	22.32



## Top Customer for Financial Year 2021



**SQL Query** 

customer	net_sales_mln
Amazon	109.03
Atliq Exclusive	79.92
Atliq e Store	70.31
Sage	27.07
Flipkart	25.25



## **Net Sales % Share by Customers**



```
    WITH CTE AS (
      SELECT
          customer, round(sum(net sales)/1000000,2) AS net sales mln
      FROM net_sales s
      JOIN dim_customer c
          ON s.customer code = c.customer code
      WHERE s.fiscal year = 2021
      GROUP BY customer
      ORDER BY net sales mln DESC
 SELECT *,
          ROUND(net sales mln *100/SUM(net sales mln)OVER(),2) AS net sales pct
      FROM CTE
      ORDER BY net_sales_pct DESC
      LIMIT 10;
```

**SQL Query** 



customer	net_sales_mln	net_sales_pct
Amazon	109.03	13.23
Atliq Exclusive	79.92	9.70
Atliq e Store	70.31	8.53
Sage	27.07	3.29
Flipkart	25.25	3.06
Leader	24.52	2.98
Neptune	21.01	2.55
Ebay	19.88	2.41
Electricalsocity	16.25	1.97
Synthetic	16.10	1.95
Flipkart Leader Neptune Ebay Electricalsocity	25.25 24.52 21.01 19.88 16.25	3.06 2.98 2.55 2.41 1.97

### **Net Sales % Share by Region – "APAC"**



```
SELECT
         c.customer,
         c.region,
         sum(net sales) AS net sales mln
     FROM net_sales s
     JOIN dim_customer c
         ON s.customer code = c.customer code
     WHERE s.fiscal year = 2021 AND region="APAC"
     GROUP BY c.customer
     ORDER BY net_sales_mln DESC
 SELECT customer, region,
         ROUND(net_sales_mln *100/SUM(net_sales_mln)OVER(),2) AS net_sales_pct
     FROM CTE
     LIMIT 10;
```

#### **SQL Query**



customer	region	net_sales_pct
Amazon	APAC	12.99
Atliq Exclusive	APAC	11.67
Atliq e Store	APAC	8.36
Leader	APAC	5.55
Sage	APAC	5.17
Neptune	APAC	4.75
Electricalsocity	APAC	3.68
Propel	APAC	3.20
Synthetic	APAC	3.20
Flipkart	APAC	2.93

## **Top 3 Market in Every Region by their Gross Sales Amount**



```
⊕ WITH CTE AS (
      SELECT c.market,
             c.region,
             round(sum(gross price total)/1000000,2) AS gross sales mln
      FROM gross sales s
      JOIN dim customer c
          ON c.customer code = s.customer code
      WHERE fiscal year = 2021
      GROUP BY c.market
      ORDER BY gross_sales_mln desc
⊖ CTE2 AS (
      SELECT *,
      dense_rank() OVER(partition by region order by gross sales mln desc) AS drnk
      FROM CTE)
  SELECT * FROM CTE2 WHERE drnk <=3
```

**SQL Query** 



market	region	gross_sales_mln	drnk
India	APAC	455.05	1
South Korea	APAC	131.86	2
Philiphines	APAC	80.64	3
United Kingdom	EU	78.11	1
France	EU	67.62	2
Norway	EU	44.95	3
Mexico	LATAM	2.30	1
Brazil	LATAM	2.14	2
Chile	LATAM	1.46	3
USA	NA	264.46	1
Canada	NA	89.78	2

## **Supply Chain - Forecast**

```
WITH forecast_err_table AS (

SELECT

s.customer_code AS customer_code,
c.customer AS customer_name,
c.market AS market,
SUM(s.sold_quantity) AS total_sold_qty,
SUM(s.forecast_quantity) AS total_forecast_qty,
SUM(s.forecast_quantity - s.sold_quantity) AS net_err,
ROUND(SUM(s.forecast_quantity - s.sold_quantity)*100 / SUM(s.forecast_quantity),1) AS net_error_pct,
SUM(ABS(s.forecast_quantity - s.sold_quantity)) AS abs_net_err,
ROUND(SUM(ABS(s.forecast_quantity - s.sold_quantity))*100 / SUM(forecast_quantity),1) AS abs_error_pct
FROM fact act est s
```

#### Output

```
FROM fact_act_est s
JOIN dim_customer c
    USING(customer_code)
WHERE s.fiscal_year = 2021
GROUP BY customer_code
)
SELECT *,
    IF(abs_error_pct > 100,0, 100 - abs_error_pct) AS forecast_accuracy
FROM forecast_err_table
ORDER BY forecast_accuracy ASC
```

customer_code	customer_name	market	total_sold_qty	total_forecast_qty	net_err	net_error_pct	abs_net_err	abs_error_pct	forecast_accuracy
70014142	Atliq Exclusive	Netherlands	81324	44704	-36620	-81.9	47904	107.2	-7.2
70014143	Atliq e Store	Netherlands	81942	45314	-36628	-80.8	48544	107.1	-7.1
90014139	Elkjøp	Netherlands	83198	46220	-36978	-80.0	48430	104.8	-4.8
90014138	Mbit	Netherlands	79249	43755	-35494	-81.1	45822	104.7	-4.7
90014140	Radio Popular	Netherlands	85581	47564	-38017	-79.9	49761	104.6	-4.6
90014135	Electricalslance Stores	Netherlands	82731	46698	-36033	-77.2	48429	103.7	-3.7
90014141	Amazon	Netherlands	77462	43887	-33575	-76.5	45015	102.6	-2.6
90014137	Media Markt	Netherlands	77931	44783	-33148	-74.0	45748	102.2	-2.2
90014136	Reliance Digital	Netherlands	84808	48415	-36393	-75.2	48445	100.1	-0.1
90007197	Amazon	South Korea	344240	226857	-117383	-51.7	191047	84.2	15.8
90019202	Argos (Sainsbury's)	Sweden	26581	18075	-8506	<del>-47.</del> 1	15130	83.7	16.3
90019203	Amazon	Sweden	27550	18912	-8638	-45.7	15780	83.4	16.6
70007198	Atliq Exclusive	South Korea	345667	228102	-117565	-51.5	188583	82.7	17.3
70007199	Atliq e Store	South Korea	358064	236637	-121427	-51.3	194953	82.4	17.6
80007196	Leader	South Korea	1456255	986574	-469681	-47.6	807109	81.8	18.2
90012036	Bila	Germany	118242	80367	-37875	-47.1	65667	81.7	18.3
90012034	Otto	Germany	112107	76219	-35888	<del>-47.</del> 1	62208	81.6	18.4
90012035	Notebillig	Germany	116882	80119	-36763	-45.9	64997	81.1	18.9
90012037	Saturn	Germany	110414	76997	-33417	-43.4	62237	80.8	19.2
80007195	Sage	South Korea	1443568	976823	-466745	-47.8	786971	80.6	19.4
70012043	Atliq e Store	Germany	114116	80261	-33855	-42.2	64375	80.2	19.8
90019201	Expert	Sweden	25685	17974	-7711	-42.9	14281	79.5	20.5
70019204	Atlig e Store	Sweden	27840	19488	-8352	-42.9	15296	78.5	21.5

SQL Query



## **Supply Chain - Forecast**



- Net Sales of Amazon is highest with 109.03M in fiscal year 2021 followed by AtliQ Exclusive with 79.92M
- Market in India generated maximum net sales with 210.67M in fiscal year 2021 followed by USA with 132.05M
- Amazon generated 13.23% of Total Net Sales among all customer in fiscal year 2021
- In APAC region, Amazon contributed maximum net sales % of 12.99% among rest customer in 2021
- In APAC, region India ranks 1 in terms of Total Gross Sales.





## THANK YOU



