

- Sarthak Maiti



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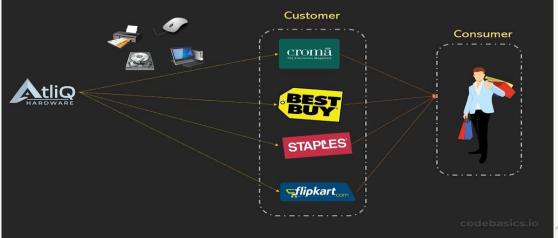
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Company Overview & Market

- AtliQ Hardware us a Computer Hardware and Accessory manufacturer.
- The company manufactures products under 3 major divisionsi.e., Netorking & Storage, PC, Peripherals & Accessories.
- AtliQ Hardware is operational inNA,
 LATAM, EU and APACregions.







Objectives

- AtliQ Hardware (fictitious corporation) is one of the major computer hardware manufacturers in India, with a strong presence in other nations.
- Nevertheless, the management did note that they do not have sufficient insights to make prompt, wise, and data-informed judgments.
- Plan to expand the data analytics team by adding junior data analysts.
- To assess candidates, Data analytics director, Tony Sharma plans to conduct a SQL Challenge to evaluate both tech and soft skills.
- The company seeks insights for 9 ad hoc requests.



Problem Statement & Problem Overview

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

Problem Overview

The Scope of this project entails conduction an indepth analysis of the dataset provided by AtliQ Hardware. The primary goal is to derive actionable insights regarding sales performance, market dynamics, customer behavior, and to forecast supply chain trends



Croma Sales Report

Generate a report detailing the individual product sales for Croma India customer throughout the fiscal year 2021

```
SELECT
   s.date,
   s.product_code,
   p.product,
   p.variant,
   s.sold_quantity,
   g.gross_price,
   ROUND((s.sold_quantity * g.gross_price), 2) AS gross_price_total
   fact_sales_monthly s
       JOIN
   dim_product p ON s.product_code = p.product_code
   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;
```

▶ 2020-09-01 A0118150101 AQ Dracula HDD − 3.5 Inch SATA 6 Gb/s 2020-09-01 A0118150102 AQ Dracula HDD − 3.5 Inch SATA 6 Gb/s 2020-09-01 A0118150103 AQ Dracula HDD − 3.5 Inch SATA 6 Gb/s 2020-09-01 A0118150104 AQ Dracula HDD − 3.5 Inch SATA 6 Gb/s 2020-09-01 A0219150201 AQ WereWolf NAS Internal Hard Drive HD 2020-09-01 A0220150203 AQ WereWolf NAS Internal Hard Drive HD 2020-09-01 A0320150301 AQ Zion Saga 2020-09-01 A0321150302 AQ Zion Saga 2020-09-01 A0321150303 AQ Zion Saga 2020-09-01 A0418150103 AQ Mforce Gen X 2020-09-01 A0418150104 AQ Mforce Gen X 2020-09-01 A0418150105 AQ Mforce Gen X 2020-09-01 A0418150106 AQ Mforce Gen Y 2020-09-01 A0519150201 AQ Mforce Gen Y 2020-09-01 A0519150202 AQ Mforce Gen Y 2020-09-01 A0519150204 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y 2020-09-01 <	5400 R Plus 5400 R Premium 5400 R Premium Plus 50 – 8 Standard 50 – 8 Plus 50 – 8 Premium Standard Plus Premium Standard 3 Plus 1 Plus 2 Plus 3	202 162 193 146 149 107 123 146 236 137 23 82 86 48	19.0573 21.4565 21.7795 22.9729 23.6987 24.7312 23.6154 23.7223 27.1027 28.0059 19.5235 19.9239 20.0766	3849.57 3475.95 4203.44 3354.04 3531.11 2646.24 2904.69 3463.46 6396.24 3836.81 449.04 1633.76 1726.59
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2020-09-01 A0418150104 AQ Mforce Gen X 2020-09-01 A0418150105 AQ Mforce Gen X 2020-09-01 A0418150106 AQ Mforce Gen X 2020-09-01 A0519150201 AQ Mforce Gen Y 2020-09-01 A0519150202 AQ Mforce Gen Y 2020-09-01 A0519150203 AQ Mforce Gen Y 2020-09-01 A0519150204 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y	Plus 1 Plus 2 Plus 3	82 86	19.9239 20.0766	1633.76
2020-09-01 A0418150105 AQ Mforce Gen X 2020-09-01 A0418150106 AQ Mforce Gen X 2020-09-01 A0519150201 AQ Mforce Gen Y 2020-09-01 A0519150202 AQ Mforce Gen Y 2020-09-01 A0519150203 AQ Mforce Gen Y 2020-09-01 A0519150204 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y	Plus 2 Plus 3	86	20.0766	
2020-09-01 A0418150106 AQ Mforce Gen X 2020-09-01 A0519150201 AQ Mforce Gen Y 2020-09-01 A0519150202 AQ Mforce Gen Y 2020-09-01 A0519150203 AQ Mforce Gen Y 2020-09-01 A0519150204 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y	Plus 3			1726.59
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2020-09-01 A0519150202 AQ Mforce Gen Y 2020-09-01 A0519150203 AQ Mforce Gen Y 2020-09-01 A0519150204 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	19.9365	956.95
2020-09-01 A0519150203 AQ Mforce Gen Y 2020-09-01 A0519150204 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y	Standard 1	138	22.3984	3090.98
2020-09-01 A0519150204 AQ Mforce Gen Y 2020-09-01 A0519150205 AQ Mforce Gen Y	Standard 2	72	24.9298	1794.95
2020-09-01 A0519150205 AQ Mforce Gen Y	Standard 3	38	26.5871	1010.31
	Plus 1	149	26.1081	3890.11
2020-09-01 A0519150206 AQ Mforce Gen Y	Plus 2	29	29.7008	861.32
	Plus 3	28	31.2439	874.83
2020-09-01 A0519150207 AQ Mforce Gen Y	Premium 1	171	32.4427	5547.70
2020-09-01 A0519150208 AQ Mforce Gen Y	Premium 2	118	30.5816	3608.63
2020-09-01 A0619150301 AQ Mforce Gen Z	Standard 1	51	30.4696	1553.95
2020-09-01 A0619150302 AQ Mforce Gen Z	Standard 2	191	34.0973	6512.58
2020-09-01 A0620150303 AQ Mforce Gen Z	Standard 3	167	34.2412	5718.28
2020-09-01 A0620150304 AQ Mforce Gen Z	Plus 1	122	37.5826	4585.08
2020-09-01 A0620150305 AQ Mforce Gen Z	Plus 2	173	36.5679	6326.25
2020-09-01 A0620150306 AO Mforce Gen Z	Plus 3	182	37,5278	6830.06

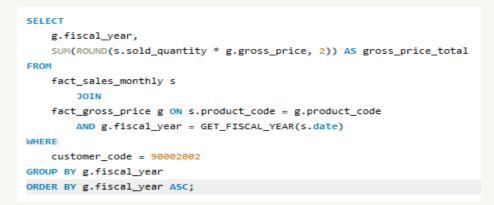


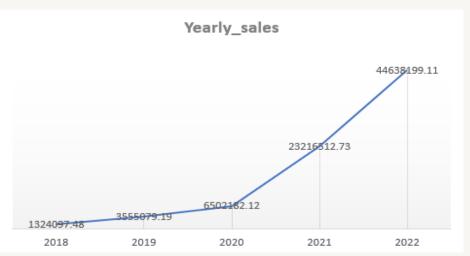
Croma Yearly Gross Sales Report

Generate a yearly report for Croma India where there are two columns.

- 1. Fiscal Year
- 2. Total Gross Sales amount in that year from Croma

	fiscal_year	gross_price_total	
•	2018	1324097.48	
	2019	3555079.19	
	2020	6502182.12	
	2021	23216512.73	
	2022	44638199.11	







Top 5 Market

Generate a report getting Top 5 markets
by Net Sales in Fiscal Year 2021

```
SELECT
   market,
   ROUND(SUM(net_sales) / 1000000, 2) AS net_sales_million
FROM
   net_sales
WHERE
   fiscal_year = 2021
GROUP BY market
ORDER BY net_sales_million DESC
LIMIT 5;
```



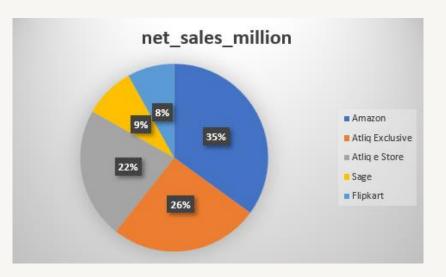


Top 5 Customers

Generate a report getting Top 5 Customers by Net Sales in Fiscal Year 2021

```
select
    c.customer,
    round(sum(n.net_sales)/1000000,2) as net_sales_million
from net_sales n
    join dim_customer c
        on n.customer_code=c.customer_code
where
    n.fiscal_year = 2021
group by c.customer
order by net_sales_million desc
limit 5;
```

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



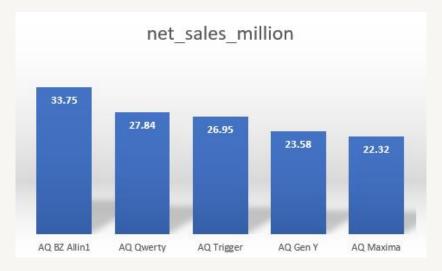


Top 5 Products

Generate a report getting Top 5 Products by Net Sales in Fiscal Year 2021

```
SELECT
    n.product,
    ROUND(SUM(n.net_sales) / 1000000, 2) AS net_sales_million
FROM
    net_sales n
WHERE
    n.fiscal_year = 2021
GROUP BY n.product
ORDER BY net_sales_million DESC
LIMIT 5;
```

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





Net Sales % Report

Generate a report on net sales percentage

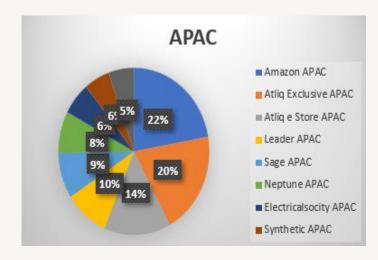
```
with cte2 as(select
    c.customer,
    c.region,
    round(sum(n.net_sales)/1000000,2) as net_sales_million
from net_sales n
    join dim_customer c
        on n.customer_code=c.customer_code
where
    n.fiscal_year = 2021
group by c.customer , c.region
order by net_sales_million desc)
select
    *,
    round(net_sales_million*100/sum(net_sales_million) over(partition by region),2) as pct_share_region
from cte2;
```

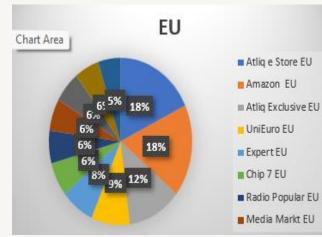
	customer	region	net_sales_million	pct_share_region
>	Amazon	APAC	57.41	12.99
	Atliq Exclusive	APAC	51.58	11.67
	Atliq e Store	APAC	36.97	8.36
	Leader	APAC	24.52	5.55
	Sage	APAC	22.85	5.17
	Neptune	APAC	21.01	4.75
	Electricalsocity	APAC	16.25	3.68
	Synthetic	APAC	14.14	3.20
	Propel	APAC	14.14	3.20
	Flipkart	APAC	12.96	2.93
	Novus	APAC	12.91	2.92
	Expression	APAC	12.90	2.92
	Girias	APAC	11.30	2.56
	Vijay Sales	APAC	11.27	2.55
	Ebay	APAC	11.14	2.52
	Reliance Digital	APAC	11.10	2.51
	Electricalslytical	APAC	11.08	2.51
	Lotus	APAC	10.53	2.38
	Ezone	APAC	10.30	2.33
	Viveks	APAC	10.09	2.28
	Croma	APAC	9.88	2.24
	Zone	APAC	6.91	1.56
	Acclaimed Sto	APAC	5.79	1.31
	Taobao	APAC	4.31	0.98
	Digimarket	APAC	3.97	0.90
	Forward Stores	APAC	3.83	0.87
	Insight	APAC	3.61	0.82

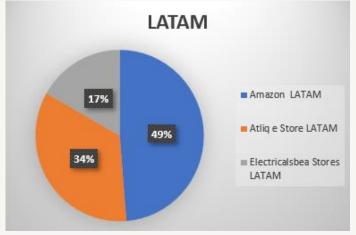


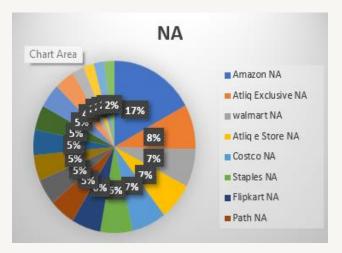
Market Share %

Top Customers in different Regions











Forecast Accuracy 2020 vs 2021

Generate a Report Comparing Forecast Accuracy of 2020 and 2021 By Customer

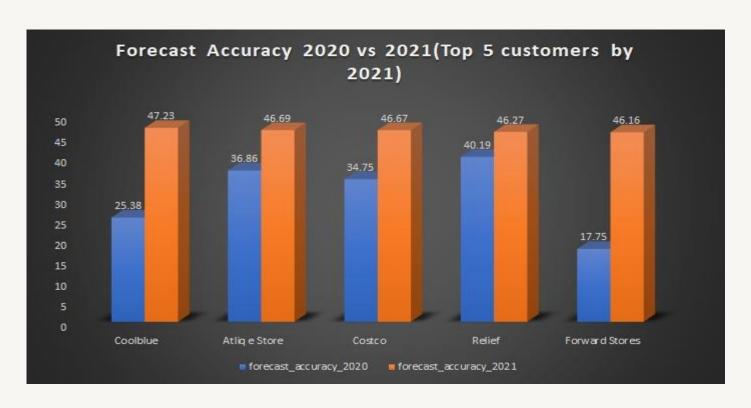
```
1 • G with cte20 as (SELECT
                e.*, dt.fiscal_year,
                sum(sold_quantity) as total_sold_quantity,
                sum(forecast_quantity) as total_forecast_quantity,
                sum(forecast_quantity - sold_quantity) as net_err,
                sum(abs(forecast_quantity - sold_quantity)) as abs_err,
                (sum(forecast_quantity - sold_quantity) * 100 / sum(forecast_quantity)) as net_err_pct,
                (sum(abs(forecast_quantity - sold_quantity)) *100 / sum(forecast_quantity)) as abs_err_pct_2020
            FROM fact act est e
10
            dim_date dt on dt.calendar_date = e.date
11
            where dt.fiscal_year = 2020
12
            group by customer_code),
     e.*, dt.fiscal_year,
                sum(sold_quantity) as total_sold_quantity,
17
                sum(forecast_quantity) as total_forecast_quantity,
                sum(forecast_quantity - sold_quantity) as net_err,
                sum(abs(forecast_quantity - sold_quantity)) as abs_err,
                (sum(forecast_quantity - sold_quantity) * 100 / sum(forecast_quantity)) as net_err_pct,
                (sum(abs(forecast_quantity - sold_quantity)) *100 / sum(forecast_quantity)) as abs_err_pct_2021
21
22
            FROM fact_act_est e
23
            dim_date dt on dt.calendar_date = e.date
            where dt.fiscal_year = 2021
            group by customer_code)
         select c.customer_code, c.customer, c.market,
            if(abs_err_pct_2020 > 100, 0, round(100 - abs_err_pct_2020, 2)) as forecast_accuracy 2020,
            if(abs_err_pct_2021 > 100, 0, 100 - round(abs_err_pct_2021, 2)) as forecast_accuracy_2021
         from cte20 c20
            join
        dim_customer c on c.customer_code = c20.customer_code
        cte21 c21 on c21.customer_code = c20.customer_code
            and c21.product_code = c20.product_code
        order by forecast_accuracy_2021 desc
```

	customer_code	customer	market	forecast_accuracy_2020	forecast_accuracy_2021
١	90013120	Coolblue	Italy	25.38	47.23
	700 100 48	Atliq e Store	Bangladesh	36,86	46.69
	90023027	Costco	Canada	34.75	46.67
	90023026	Relief	Canada	40.19	46.27
	90017051	Forward Stores	Portugal	17.75	46.16
	90017058	Mbit	Portugal	15.45	46.03
	90023028	walmart	Canada	36.83	45.98
	90023024	Sage	Canada	38.59	45.82
	90015146	Mbit	Norway	0.86	45.76
	90013124	Amazon	Italy	3.77	45.76
	90017054	Flawless Stores	Portugal	13.76	45.52
	70027208	Atliq e Store	Brazil	35.34	45.51
	90015147	Chiptec	Norway	6.38	45.46
	80001019	Neptune	China	23.40	45.44
	90015144	Sound	Norway	8.37	45.37
	90009130	Logic Stores	Newzealand	0.06	45.34
	90015149	UniEuro	Norway	7.91	45.33
	90021088	Electricalslytical	United Kin	36.01	45.33
	90017050	Electricalsara	Portugal	17.89	45.28
	70013125	Atliq Exclusive	Italy	27.59	45.27
	90021094	Coolblue	United Kin	37.94	45.24
	70009134	Atliq e Store	Newzealand	0	45.19
	90013118	Fnac-Darty	Italy	27.95	45.17



Forecast Accuracy 2020 vs 2021

Forecast Accuracy 2020 vs 2021 by Customer (Top 5 Customer by 2021 Forecast Accuracy





Conclusion

- AtliQ Hardware achieved record sales in 2022.
- India was the largest market in 2021 with sales of \$210.67M
- Amazon generated the highest Net Sales in 2021 with \$109.03M
- The AQ BZ All-in-One was the top-selling product in 2021 with the sales of \$33.75M
- Amazon captures the top market share% in APAX, LATAM & NA regions.
- AtliQ estore topped the chart in EU region.
- Forecast Accuracy of 2021 is much more accurate than 2020.





THANK YOU