

## PROJECT OVERVIEW

OPTIMIZING ATLIQ HARDWARE'S OPERATIONS THROUGH SQL

In this project, we aim to address the growing challenges AtliQ Hardware faces due to the size and complexity of their current data management in Excel. As a leading global manufacturer of hardware products, AtliQ Hardware requires efficient, data-driven insights to remain competitive in the market.

Our approach leverages **SQL to analyze key datasets**—spanning sales performance, customer behaviour, market trends, and supply chain operations—allowing us to transform raw data into actionable insights. By utilizing SQL for structured querying and analysis, we will streamline data processing, forecast trends, and provide recommendations to improve operational efficiency, increase sales, and optimize inventory management.

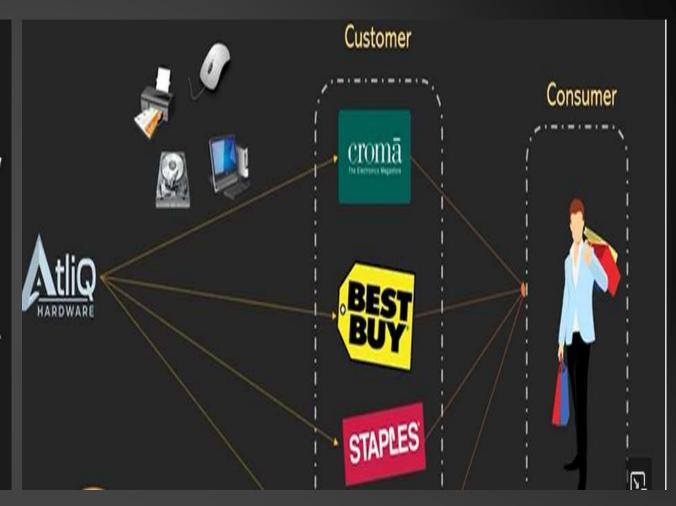
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## ATLIQ HARDWARE AND BUSINESS MODEL

AtliQ Hardware is a renowned global leader in electronics manufacturing, known for its expertise in producing and distributing a wide range of high-quality hardware products.

Our portfolio includes personal computers, printers, mice, and various other computer peripherals, designed to meet the diverse needs of customers around the world.



## PROBLEM STATEMENT AND PROBLEM OVERVIEW

## PROBLEM STATEMENT

AtliQ Hardware is experiencing performance inefficiencies driven by the growing size and complexity of its Excel-based data management system. To resolve these challenges, the company has established a specialized team of data analysts tasked with utilizing MySQL to extract meaningful insights and enhance overall operational efficiency. This transition aims to streamline data processes and enable more informed, data-driven decision-making.

## PROBLEM OVERVIEW

The Scope of this project entails conduction 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, and to forecast supply chain trends

#### DATA SET

- DIMENSION TABLES
- DIM\_CUSTOMER
- DIM\_DATE
- DIM\_PRODUCT

- FACT TABLES
- FACT\_FORCAST\_MONTHLY
- FACT\_FREIGHT\_COST
- FACT\_GROSS\_PRICE
- FACT\_MANUFACTURING\_COST
- FACT\_POST\_INVOICE\_DEDUCTION
- FACT\_PRE\_INVOICE\_DEDUCTION
- FACT\_SALES\_MONTHLY

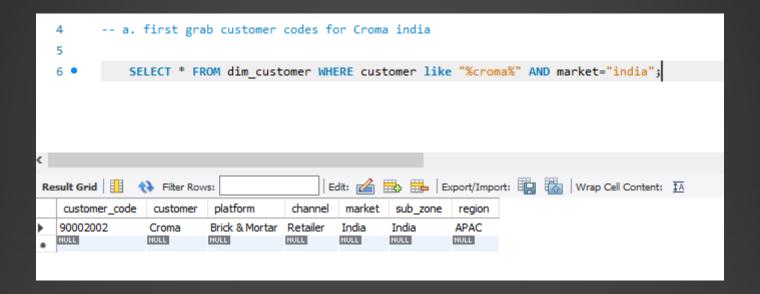
### PART 1: FINANCE ANALYTICS

#### CROMA INDIA PRODUCT WISE SALES REPORT FOR FISCAL YEAR 2021

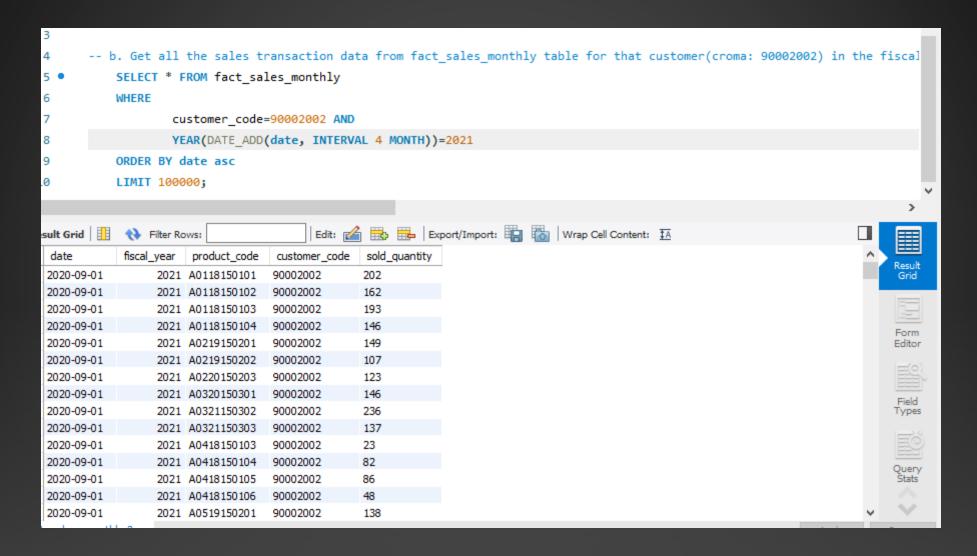
- WE HAVE TO GENERATE A REPORT OF INDIVIDUAL PRODUCT SALES (AGGREGATED ON MONTHLY BASIS AT THE PRODUCT CODE LEVEL) FOR CROMA INDIA CUSTOMER FOR FY=2021 SO THAT WE CAN TRACK PRODUCT SALES AND RUN FURTHUR PRODUCT ANALYTICS
- REPORT SHOULD HAVE THE FOLLOWING FIELDS:
- 1. Month
- 2. Product Name
- 3. Variant
- 4. Sold Quantity
- 5. Gross Price Per Item
- 6. Gross Price Total

Module: User-Defined SQL Function

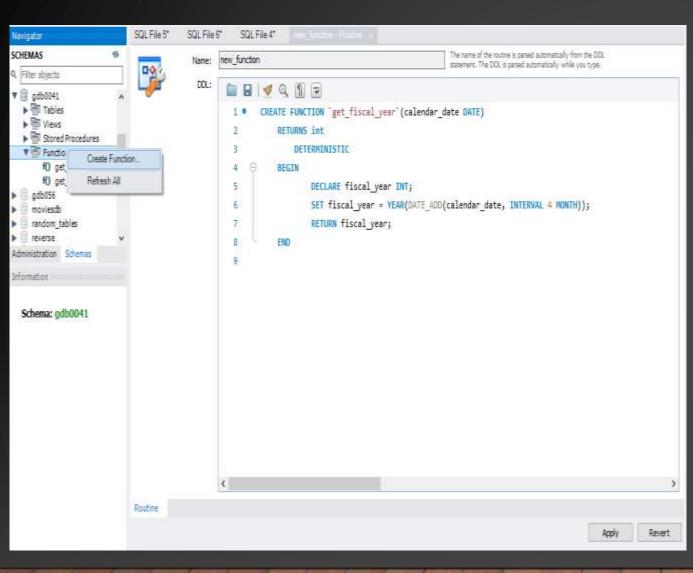
a. first grab customer codes for Croma india



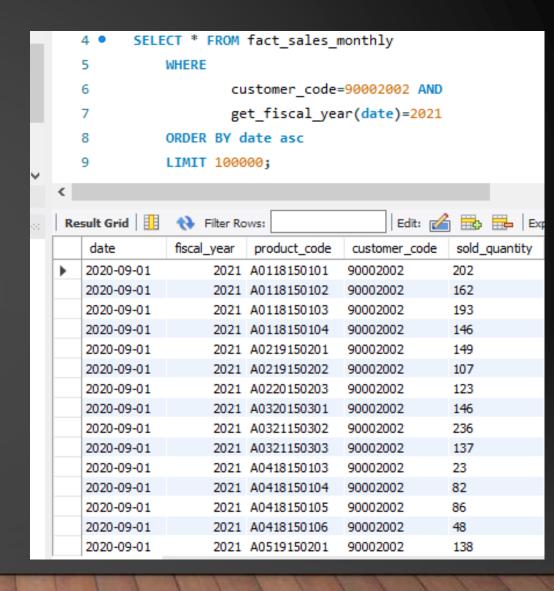
b. Get all the sales transaction data from fact\_sales\_monthly table for that customer(croma: 90002002) in the fiscal\_year 2021



c. create a function 'get\_fiscal\_year' to get fiscal year by passing the date

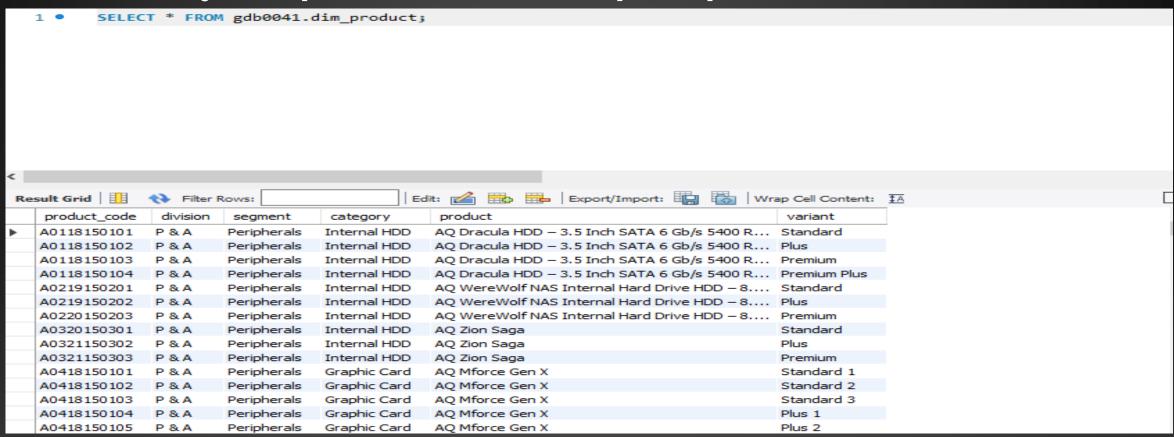


d. Replacing the function created in the step:b

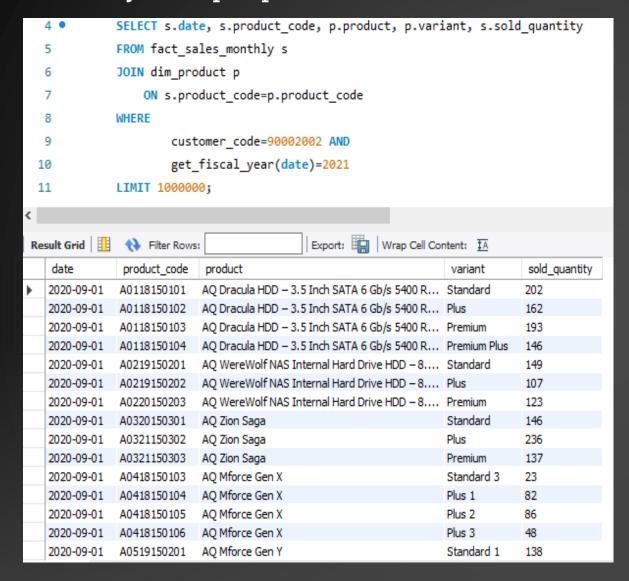


#### Module: Gross Sales Report: Monthly Product Transactions

Till now we have find 1.Month and 4.sold quantity column now we have to find 2.Product Name and 3.Variant to find these
column we need to go for dim\_product table because these column present in product table



#### a. Perform joins to pull product information

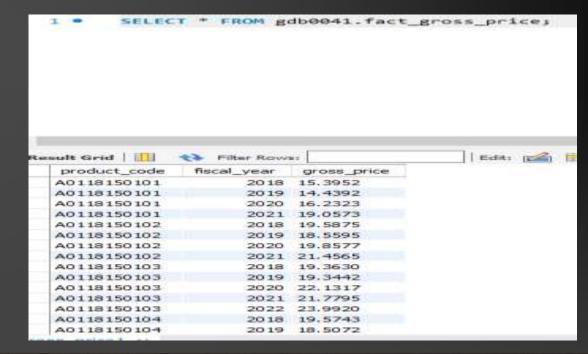


#### Till now we have four column:

- 1. Month
- 2. Product Name
- 3. Variant
- 4. Sold quantity

#### We require two more column:

- 5. Gross price per item
- 6. Gross price total



b. Performing join with 'fact\_gross\_price' table with the above query and generating required fields

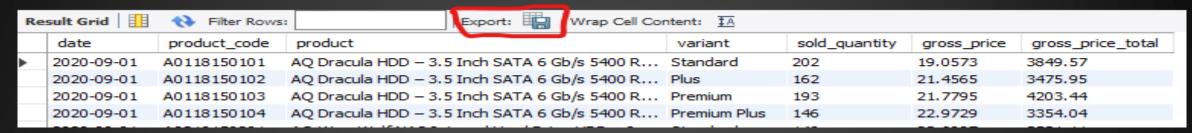
#### Query:

```
SELECT
           s.date,
           s.product_code,
           p.product,
           p.variant,
           s.sold_quantity,
           g.gross_price,
           ROUND(s.sold_quantity*g.gross_price_total
   FROM fact_sales_monthly s
   JOIN dim_product p
           ON s.product_code=p.product_code
   JOIN fact_gross_price g
           ON g.fiscal_year=get_fiscal_year(s.date)
       AND g.product_code=s.product_code
   WHERE
           customer_code=90002002 AND
           get_fiscal_year(s.date)=2021
```

#### Output:

Result Grid 1 The Filter Rows: Export: Wrap Cell Content: 🖽							
	date	product_code	product	variant	sold_quantity	gross_price	gross_price_total
•	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 00 01	AN/101EN10E	AO Mforco Con V	Dina 2	//0	10.0000	חבב חב

Then we will export this report by click on export button and will save it as csv file which we can open in Excel and can give it to business manager and product owner.



#### After export we will convert above report into .csv file and we will open in excel which will look like below

$\square$	Α	В	С	D	E	F	G
1	date	product_code	product	variant	sold_quantity	gross_price	gross_price_total
2	6/1/2021	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 MB Cache	Standard	205	19.0573	3906.7465
3	6/1/2021	A0118150102	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 MB Cache	Plus	78	21.4565	1673.607
4	6/1/2021	A0118150103	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 MB Cache	Premium	48	21.7795	1045.416
5	6/1/2021	A0118150104	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 MB Cache	Premium Plus	126	22.9729	2894.5854
6	6/1/2021	A0219150201	AQ WereWolf NAS Internal Hard Drive HDD – 8.89 cm	Standard	40	23.6987	947.948
7	6/1/2021	A0219150202	AQ WereWolf NAS Internal Hard Drive HDD – 8.89 cm	Plus	102	24.7312	2522.5824
8	6/1/2021	A0220150203	AQ WereWolf NAS Internal Hard Drive HDD – 8.89 cm	Premium	31	23.6154	732.0774
9	6/1/2021	A0320150301	AQ Zion Saga	Standard	91	23.7223	2158.7293
10	6/1/2021	A0321150302	AQ Zion Saga	Plus	70	27.1027	1897.189
11	6/1/2021	A0321150303	AQ Zion Saga	Premium	145	28.0059	4060.8555
12	6/1/2021	A0418150103	AQ Mforce Gen X	Standard 3	108	19.5235	2108.538
13	6/1/2021	A0418150104	AQ Mforce Gen X	Plus 1	76	19.9239	1514.2164
14	6/1/2021	A0418150105	AQ Mforce Gen X	Plus 2	84	20.0766	1686.4344
15	6/1/2021	A0418150106	AQ Mforce Gen X	Plus 3	114	19.9365	2272.761
16	6/1/2021	A0519150201	AQ Mforce Gen Y	Standard 1	58	22.3984	1299.1072
17	6/1/2021	A0519150202	AQ Mforce Gen Y	Standard 2	107	24.9298	2667.4886
18	6/1/2021	A0519150203	AQ Mforce Gen Y	Standard 3	156	26.5871	4147.5876
19	6/1/2021	A0519150204	AQ Mforce Gen Y	Plus 1	78	26.1081	2036.4318
20	6/1/2021	A0519150205	AQ Mforce Gen Y	Plus 2	144	29.7008	4276.9152
21	6/1/2021	A0519150206	AQ Mforce Gen Y	Plus 3	161	31.2439	5030.2679
22	6/1/2021	A0519150207	AQ Mforce Gen Y	Premium 1	126	32.4427	4087.7802
22	6/1/2021	A0510150200	AO Mforco Gon V	Dromium 2	0/1	20 5016	207/ 670/

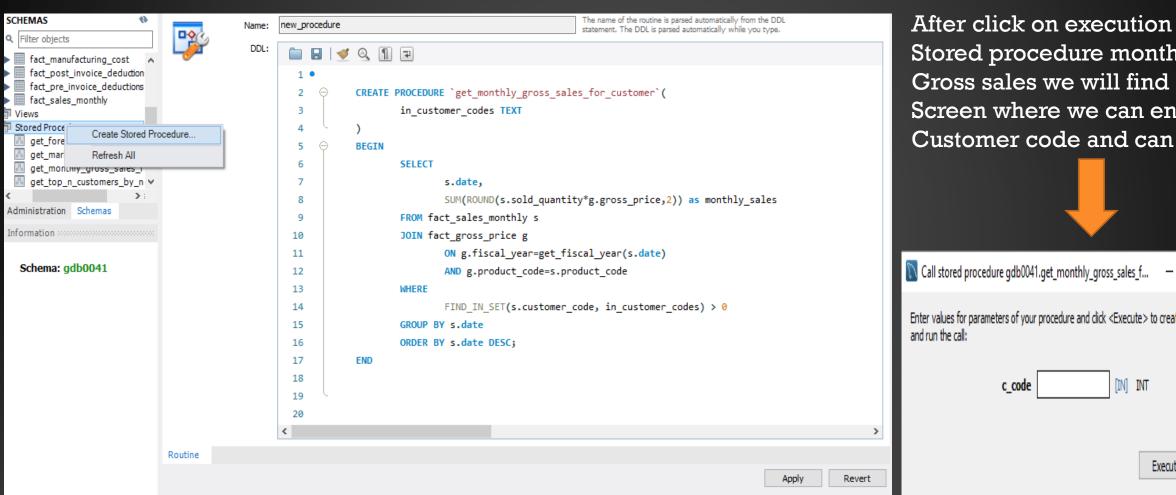
## Module: Gross Sales Report: Total Sales Amount

Generate monthly gross sales report for Croma India for all the years

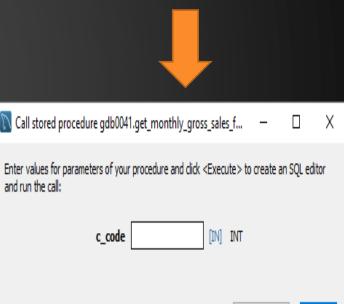
```
3 •
         SELECT
  4
                       s.date,
                       SUM(ROUND(s.sold_quantity*g.gross_price,2)) as monthly_sales
  5
              FROM fact_sales_monthly s
  6
              JOIN fact gross price g
                  ON g.fiscal year=get fiscal year(s.date) AND g.product code=s.product code
  8
  9
              WHERE
 10
                        customer code=90002002
 11
              GROUP BY date;
Result Grid
              Filter Rows:
                                              Export: Wrap Cell Content: $\frac{1}{4}
   date
               monthly_sales
   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
              125409.90
   2018-08-01
   2018-09-01 343337.14
   2018-10-01
              440562,10
   2018-12-01
              653944.72
   2019-01-01
               359025.06
   2010 02 01
               255507 10
```

### Module: Stored Procedures: Monthly Gross Sales Report

Generate monthly gross sales report for any customer using stored procedure



After click on execution icon of Stored procedure monthly Gross sales we will find a new Screen where we can enter

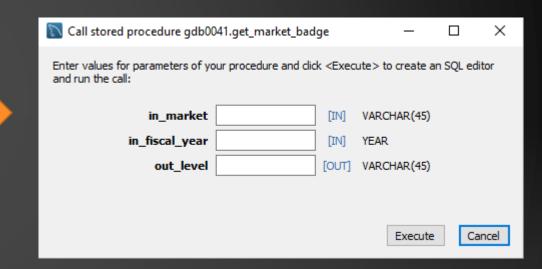


Cancel

#### Module: Stored Procedure: Market Badge

Write a stored proc that can retrieve market badge. i.e. if total sold quantity > 5 million that market is considered "Gold" else "Silver"

```
CREATE PROCEDURE `get_market_badge`(
                  IN in_market VARCHAR(45),
                  IN in fiscal year YEAR,
                  OUT out level VARCHAR(45)
           BEGIN
                   DECLARE qty INT DEFAULT 0;
 9
                   # Default market is India
                   IF in market = "" THEN
10
                        SET in_market="India";
11
                   END IF;
12
13
                   # Retrieve total sold quantity for a given market in a given year
14
                   SELECT
15
16
                        SUM(s.sold quantity) INTO qty
                   FROM fact sales monthly s
17
18
                   JOIN dim customer c
                   ON s.customer_code=c.customer_code
19
20
                   WHERE
                        WHERE
20
                              get_fiscal_year(s.date)=in_fiscal_year AND
21
22
                              c.market=in market;
23
                        # Determine Gold vs Silver status
24
25
                        IF atv > 5000000 THEN
26
                              SET out level = 'Gold';
27
                        ELSE
28
                              SET out_level = 'Silver';
29
                        END IF;
30
              END
```



## BENEFITS OF STORED PROCEDURE

- 1. Convenience
- 2. Security
- 3. Maintainability
- 4. Performance
- 5. Developer Productivity

### PART -2: TOP CUSTOMERS, PRODUCTS, MARKETS

#### Module: Problem Statement and Pre-Invoice Discount Report

Till now we have found gross price and gross price total and we have to find top Customers, Products, Markets so we need to get pre invoice discount coloumn in last query where we get gross price and gross Discount

```
SELECT
                        s.date.
                        s.product code,
                        p.product,
                        p.variant,
                        s.sold_quantity,
                        g.gross price,
  8
                        ROUND(s.sold_quantity*g.gross_price_2) as gross_price_total
              FROM fact sales monthly s
  9
 10
              JOIN dim product p
                        ON s.product_code=p.product_code
 11
 12
              JOIN fact gross price g
                        ON g.fiscal_year=get_fiscal_year(s.date)
 13
                   AND g.product code=s.product code
 14
 15
              WHERE
 16
                        customer code=90002002 AND
 17
                        get fiscal year(s.date)=2021
Result Grid
                Filter Rows:
                                                            Wrap Cell Content:
   date
                product code
                                                                                       sold quantity
                                                                                                     gross price
                                                                                                                 gross_price_total
   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
                             AQ Dracula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Plus
                                                                                                    21.4565
                                                                                                                 3475.95
               A0118150102
   2020-09-01
               A0118150103
                              AO 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
```

## INCLUDE PRE-INVOICE DEDUCTIONS IN CROMA DETAILED REPORT

```
g.gross_price as gross_price_per_item,
                       ROUND(s.sold quantity*g.gross price,2) as gross price total,
   8
                       pre.pre_invoice_discount_pct
   9
               FROM fact_sales_monthly s
 10
               JOIN dim product p
 11
 12
                        ON s.product code=p.product code
               JOIN fact gross price g
 13
                        ON g.fiscal year=get fiscal year(s.date)
 14
                        AND g.product code=s.product code
 15
               JOIN fact pre invoice deductions as pre
 16
 17
                        ON pre.customer code = s.customer code AND
                        pre.fiscal year=get fiscal year(s.date)
 18
 19
               WHERE
                   s.customer code=90002002 AND
  20
                        get fiscal year(s.date)=2021
 21
 22
               LIMIT 1000000;
<
                                                Export: Wrap Cell Content: IA
Result Grid
               Filter Rows:
   t code
           product
                                                                  sold_quantity
                                                                                gross_price_per_item
                                                                                                    gross_price_total
                                                                                                                    pre_invoice_discount_pct
                                                     variant
   150101
           AQ Master wired x1 Ms
                                                    Standard 1
                                                                  537
                                                                               2.9434
                                                                                                   1580.61
                                                                                                                    0.3025
                                                    Standard 1
                                                                                                   3049.36
                                                                                                                    0.3025
   150101
           AO Master wired x1 Ms
                                                                  1036
                                                                               2.9434
   150101
           AO Master wired x1 Ms
                                                    Standard 1
                                                                  921
                                                                               2.9434
                                                                                                   2710.87
                                                                                                                    0.3025
   150101
                                                    Standard 1
                                                                  306
                                                                               2.9434
                                                                                                   900.68
                                                                                                                    0.3025
           AQ Master wired x1 Ms
   150101
           AO Master wired x1 Ms
                                                    Standard 1
                                                                  485
                                                                               2.9434
                                                                                                   1427.55
                                                                                                                    0.3025
   150101
           AO Master wired x1 Ms
                                                    Standard 1
                                                                  291
                                                                               2.9434
                                                                                                   856.53
                                                                                                                    0.3025
```

#### MODULE: DATABASE VIEWS: INTRODUCTION

Get the net\_invoice\_sales amount using the CTE's

```
WITH ctel AS (
  2
                  SELECT
                            s.date.
                           s-customer_code,
                           s.product_code,
                                p.product, p.variant,
                                s.sold quantity,
  8
                                g.gross price as gross price per item,
                                ROUND(s.sold_quantity*g.gross_price,2) as gross_price_total,
 3.0
                                pre.pre_invoice_discount_pct
                  FROM fact_sales_monthly s
 3.3.
 12
                  JOIN dim product p
 13
                           ON s.product_code=p.product_code
 14
                    JOIN fact_gross_price g
                             ON g.fiscal year=s.fiscal year
 15
 16
                             AND g.product code=s.product code
                    JOIN fact_pre_invoice_deductions as pre
 17
 18
                             ON pre.customer code = s.customer code AND
                             pre.fiscal year=s.fiscal year
 19
                   WHERE
 20
 21
                             s.fiscal year=2021)
 22
               SELECT
 23
                        (gross price total-pre invoice discount pct*gross price total) as net invoice sales
 24
 25
               FROM cte1
 26
               LIMIT 1500000;
 27
                                                                                              Result Grid Filter Rows:
                                            Export:
                                                        Wrap Cell Content: $\overline{\pmathbb{T}} A Fetch rows:
                                                   sold guantity
                                                                 gross_price_per_item
                                                                                      gross_price_total
                                                                                                       pre_invoice_discount_pct
                                                                                                                               net invoice sales
  cula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Standard
                                                  248
                                                                19.0573
                                                                                     4726.21
                                                                                                      0.0703
                                                                                                                               4393,957437
  cula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Standard
                                                  240
                                                                19.0573
                                                                                     4573.75
                                                                                                      0.2061
                                                                                                                               3631.100125
  cula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Standard
                                                  31
                                                                 19.0573
                                                                                     590.78
                                                                                                      0.0974
                                                                                                                               533.238028
  cula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Standard
                                                  37
                                                                19.0573
                                                                                     705.12
                                                                                                      0.2065
                                                                                                                               559.512720
                                                  7
                                                                19.0573
                                                                                     133,40
  cula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Standard
                                                                                                      0.1068
                                                                                                                               119.152880
                                                  12
  cula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Standard
                                                                19.0573
                                                                                     228.69
                                                                                                      0.2612
                                                                                                                               168.956172
  cula HDD - 3.5 Inch SATA 6 Gb/s 5400 R... Standard
                                                  17
                                                                19.0573
                                                                                     323.97
                                                                                                      0.2471
                                                                                                                               243.917013
```

## CREATING THE VIEW `SALES\_PREINV\_DISCOUNT` AND STORE ALL THE DATA IN LIKE A VIRTUAL TABLE

```
1 •
       CREATE VIEW `sales_preinv_discount` AS
 2
            SELECT
                    s.date,
                    s.fiscal_year,
                    s.customer code,
                    c.market.
                    s.product code,
 8
                    p.product,
 9
                    p.variant.
10
                    s.sold quantity,
                    g.gross price as gross_price_per_item,
11
12
                    ROUND(s.sold_quantity*g.gross_price,2) as gross_price_total,
                    pre.pre invoice discount pct
           FROM fact_sales_monthly s
14
            JOIN dim_customer c
15
16
                ON s.customer code = c.customer code
17
            JOIN dim_product p
18
                    ON s.product code=p.product code
19
            JOIN fact_gross_price g
```

#### Now generate net\_invoice\_sales using the above created view "sales\_preinv\_discount"

1

SELECT

	2		+ .							
	3		(gro	ss price	total-p	ore invoice d	iscount_pct*gross	price total)	as net_invoice_sales	
	a	FROM	gdb0041			The state of the s				
		A STATE OF								
	, =									
#R4	esult Grid	43	Filter Rows:			Export: W	rap Cell Content: IA   I	Fetch rows:	•	
	-t				variant	sold_quantity	gross_price_per_item	gross_price_total	pre_invoice_discount_pct	net_invoice_sales
•	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	51	15.3952	785.16	0.0824	720.462816
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	77	15.3952	1185.43	0.2956	835.016892
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	17	15.3952	261.72	0.0536	247.691808
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	6	15.3952	92.37	0.2378	70.404414
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	5	15,3952	76.98	0.1057	68.843214
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	7	15.3952	107.77	0.1875	87.563125
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	29	15.3952	446.46	0.0700	415.207800
	cula HDD - 3.1	Inch S	ATA 6 Gb/s	5400 R	Standard	34	15.3952	523.44	0.2551	389.910456
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	22	15.3952	338.69	0.0953	306.412843
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	5	15.3952	76,98	0.1896	62,384592
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	10	15.3952	153.95	0.0521	145.929205
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	4	15.3952	61.58	0.2046	48.980732
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	0	15.3952	0.00	0.0984	0.000000
	cula HDD - 3.1	Inch 5	ATA 6 Gb/s	5400 R	Standard	0	15,3952	0.00	0.2620	0.000000
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	1	15.3952	15.40	0.0587	14.496020
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	1	15,3952	15,40	0.2501	11.548460
	cula HDD - 3.5	Inch S	ATA 6 Gb/s	5400 R	Standard	1	15.3952	15.40	0.1937	12.417020
	cula HDD - 3.5	Inch 5	ATA 6 Gb/s	5400 R	Standard	20	15.3952	307.90	0.2025	245,550250

#### MODULE: DATABASE VIEWS: POST INVOICE DISCOUNT, NET SALES

#### Create a view for post invoice deductions: `sales\_postinv\_discount`

```
CREATE VIEW 'sales postinv discount' AS
           SELECT
                   s.date, s.fiscal year,
                   s.customer_code, s.market,
                   s.product code, s.product, s.variant,
                   s.sold_quantity, s.gross_price_total,
                   s.pre_invoice_discount_pct,
                   (s.gross_price_total-s.pre_invoice_discount_pct*s.gross_price_total) as net_invoice_sales
                   (po.discounts_pct+po.other_deductions_pct) as post_invoice_discount_pct
           FROM sales preinv discount s
10
           JOIN fact_post_invoice_deductions po
11
               ON po.customer_code = s.customer_code AND
12
               po.product code = s.product code AND
13
               po.date = s.date;
14
```

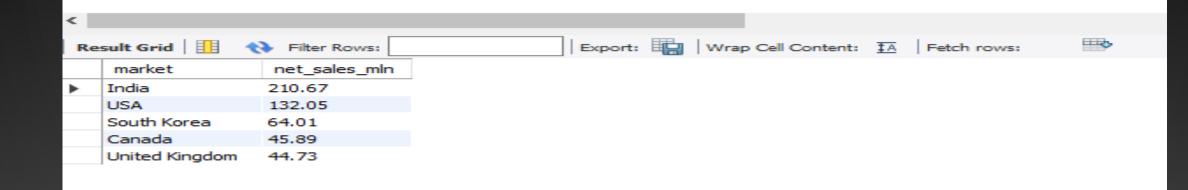
#### Create a report for net sales

	1	SELECT								
	2		*,							
	3	net invoice sales*(1-post invoice discount pct) as net sales								
	4 FROM gdb0041.sales postinv discount;									
	_		5	post						
<										
_										
Res	sult Grid		Filter Row	s:	Export:	Wrap Cell Content: TA	Fetch rows:	>	Ι	
			variant	sold_quantity	gross_price_total	pre_invoice_discount_pct	net_invoice_sales	post_invoice_discount_pct	net_sales	
▶	. 6 Gb/s 5	400 R	Standard	4	61.58	0.2803	44.319126	0.3905	27.0125072970	
	6 Gb/s 5	400 R	Standard	16	246.32	0.2803	177.276504	0.4139	103.9017589944	
	6 Gb/s 5	400 R	Standard	4	61.58	0.2803	44.319126	0.3295	29.7159739830	
	. 6 Gb/s 5	400 R	Standard	6	92.37	0.2803	66.478689	0.3244	44.9130022884	
	6 Gb/s 5	400 R	Standard	9	138.56	0.2803	99.721632	0.3766	62.1664653888	
	6 Gb/s 5	400 R	Standard	6	92.37	0.2803	66.478689	0.3615	42.4466429265	
	6 Gb/s 5	400 R	Standard	7	107.77	0.2803	77.562069	0.3173	52.9516245063	
1	6 Gb/s 5	400 R	Standard	10	153.95	0.2803	110.797815	0.3501	72.0074999685	
	6 Gb/s 5	400 R	Standard	6	92.37	0.2803	66.478689	0.3740	41.6156593140	
	6 Gb/s 5	400 R	Standard	4	61.58	0.2117	48.543514	0.2863	34.6455059418	
	6 Gb/s 5	400 R	Standard	2	30.79	0.2117	24.271757	0.2851	17.3518790793	

# FINALLY CREATING THE VIEW 'NET\_SALES' WHICH INBUILTLY USE/INCLUDE ALL THE PREVIOUS CREATED VIEW AND GIVES THE FINAL RESULT

#### MODULE: TOP MARKETS AND CUSTOMERS

#### Get top 5 market by net sales in fiscal year 2021



### STORED PROC TO GET TOP N MARKETS BY NET SALES FOR A

**GIVEN YEAR** 

```
`get_top_n_markets_by_net_sales`(
 2
                    in fiscal year INT,
 3
                    in_top_n INT
 5
            BEGIN
                    SELECT
 1
                              market,
                              round(sum(net_sales)/1000000,2) as net_sales_mln
 8
 9
                    FROM net sales
                    where fiscal year=in fiscal year
10
11
                    group by market
                    order by net sales mln desc
12
                    limit in_top_n;
14
```

stored procedure that takes market, fiscal\_year and top n as an input and returns top n customers by net sales in that given fiscal year and market

```
    CREATE PROCEDURE `get_top_n_customers_by_net_sales`(

 2
                    in market VARCHAR(45),
                    in_fiscal year INT,
 3
                    in top n INT
 5
            BEGIN
                    select
 8
                              customer,
                              round(sum(net_sales)/1000000,2) as net_sales_mln
                    from net sales s
10
                    join dim customer c
11
12
                        on s.customer_code=c.customer_code
13
                    where
                    s.fiscal_year=in_fiscal_year
15
                    and s.market=in market
16
                    group by customer
                    order by net_sales_mln desc
17
                    limit in top n;
18
19
            END
```

#### GENERATE A REPORT GETTING TOP 5 CUSTOMERS BY NET SALES IN FISCAL YEAR 2021

```
SELECT
```

c.customer,

ROUND(SUM(Net\_sales)/1000000,2) as net\_sales\_mln

FROM gdb0041.net\_sales n

JOIN dim\_customer c

ON n.customer\_code = c.customer\_code

WHERE fiscal\_year = 2021

**GROUP BY customer** 

ORDER BY net\_sales\_mln desc

LIMIT 5;

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

## GENERATE A REPORT GETTING TOP 5 PRODUCTS BY NET SALES IN FISCAL YEAR 2021

```
SELECT
  product, ROUND(SUM(net_sales) / 1000000, 2) AS net_sales_mln
FROM
  gdb0041.net sales
WHERE
  fiscal year = 2021
GROUP BY product
ORDER BY net_sales_mln DESC
```

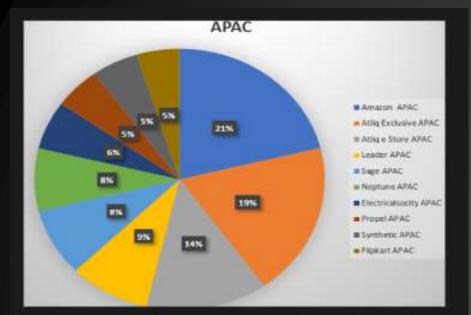
LIMIT 5;

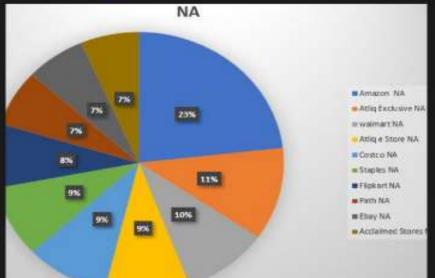
Re	esult Grid	Filter Rows:		
	product	net_sales_mln		
•	AQ BZ Allin1	33.75		
	AQ Qwerty	27.84		
	AQ Trigger	26.95		
	AQ Gen Y	23.58		
	AQ Maxima	22.32		

## GENERATE A NET SALES % REPORT OF CUSTOMERS IN DIFFERENT REGIONS

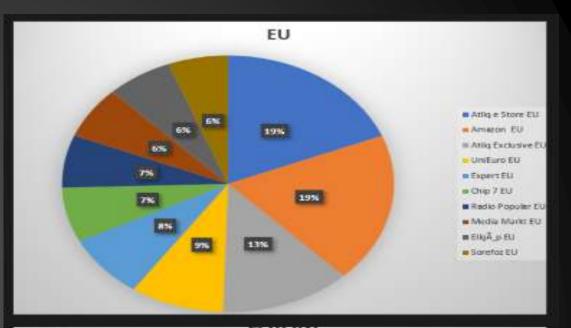
```
With cte1 as
(SELECT
  c.customer, c.region,
   ROUND(SUM(Net_sales)/1000000,2) as net_sales_min
  FROM gdb0041.net_sales n
  JOIN dim_customer c
  ON n.customer code = c.customer code
  WHERE fiscal_year = 2021
  GROUP BY c.customer, c.region)
 Select
    ROUND(net_sales_min*100/sum(net_sales_min)
    over (partition by region),2) as pct_share_region
    from cte1
 order by region, net_sales_mln desc;
```

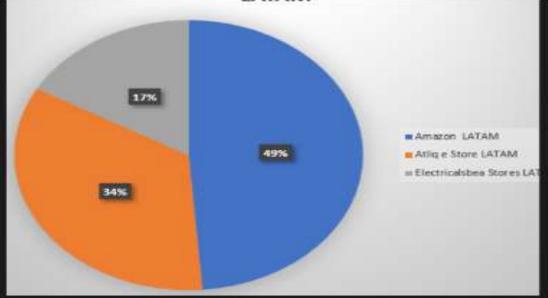
Re	esult Grid	Filter Rows:		Export:		
	customer	region	net_sales_mln	pct_share_region		
•	Amazon	APAC	57.41	12.99		
	Atliq Exclusive	APAC	51.58	11.67		
	Atliq e Store	APAC	36.97	8.36		
	Leader	APAC	24.52	5.55		
	Sage	APAC	22.85	5.17		
	Neptune	APAC	21.01	4.75		
	Electricalsocity	APAC	16.25	3.68		
	Propel	APAC	14.14	3.20		
	Synthetic	APAC	14.14	3.20		
	Flipkart	APAC	12.96	2.93		
	Novus	APAC	12.91	2.92		
	Expression	APAC	12.90	2.92		





MARKET
SHARE % TOP
CUSTOMERS
IN
DIFFERENT
REGIONS





## 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.

## THANK YOU