



# AtliQ Hardware

Finance Analytics  
Presentation



# Project Overview

AtilQ is a company that sells Hardware Like pc, mouse, printers, and so on to different customers, this model is similar to Hp, or Dell



They sell or make hardware, and they Sell it to stores such as BEST BUY, CROMA, STAPLES even online stores like Amazon and Flipkart

AtliQ Operates In Four Regions Namely APAC(Asia Pacific), EU(Europe), NA(North America), And LATAM(Latin America)

Task

Generate monthly Gross sale reports

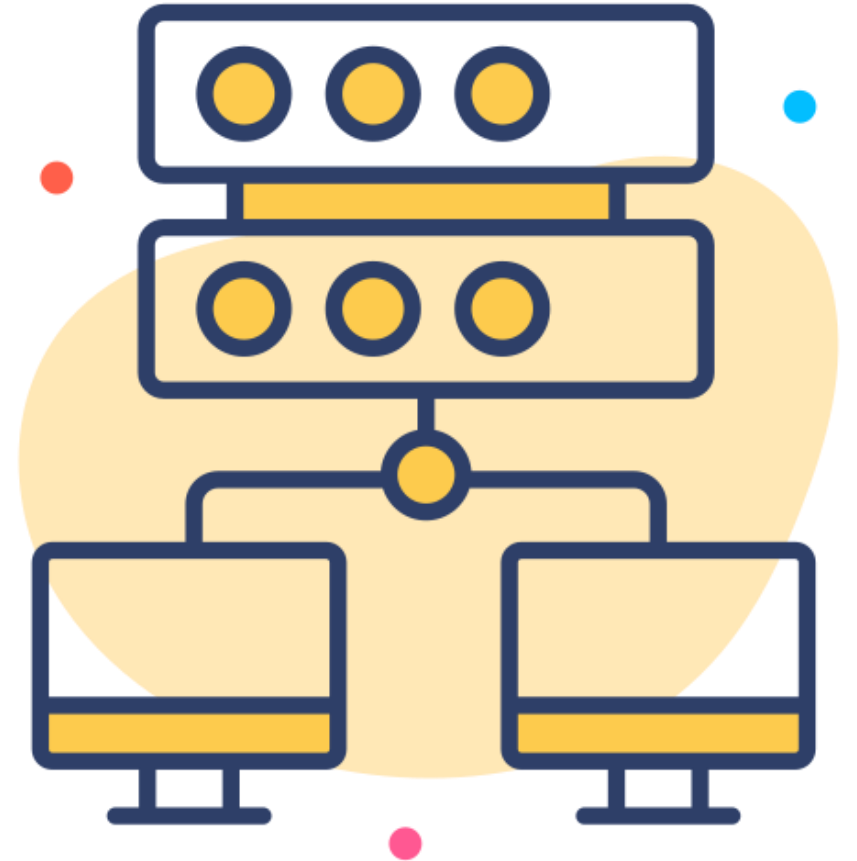
Identify the financial position of The company over various Fiscal years

Identify Top products , Markets, And customers

# Dataset overview

- Loaded a million rows of data into a Mysql database and Executed multiple queries
- Analyzed the following tables to derive the sql concepts presented :

1. Dim\_customer
2. Dim\_date
3. Dim\_product
4. Fact\_act\_est
5. Fact\_forecast\_monthly
6. Fact\_freight\_cost
7. Fact\_gross\_price
8. Fact\_manufacturing\_cost
9. Fact\_post\_invoice\_deduction
10. Fact\_pre\_invoice\_deduction
11. Fact\_sales\_monthly



- **Created Two User Defined SQL function**

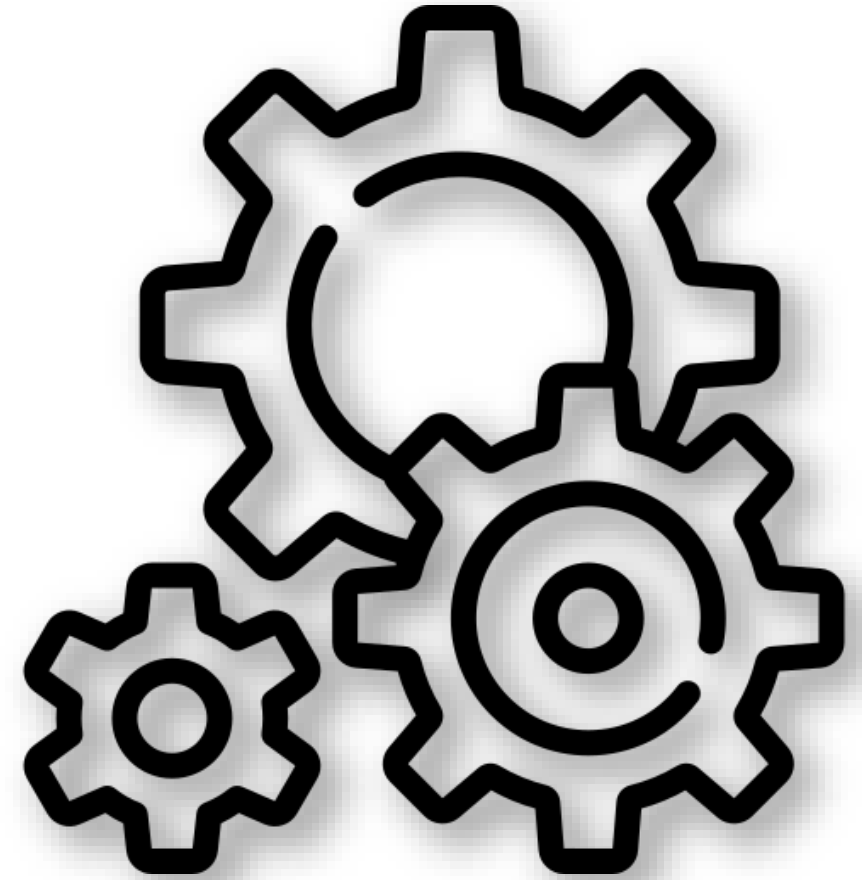
1. **Get\_fiscal\_year**
2. **Get\_fiscal\_quaters**

- **Five stored procedure**

1. **Get\_market\_badge**
2. **Get\_monthly\_grosssales\_for\_given\_customer**
3. **Get\_top\_n\_customer\_by\_net\_sales**
4. **Get\_top\_n\_markets\_by\_net\_sales**
5. **Get\_top\_n\_products\_by\_net\_sales**

- **Four Views**

1. **Gross\_sales**
2. **Net\_sales**
3. **Sales\_postinvoice\_discount**
4. **Sales\_preinvoice\_discount**



## Implementing user ---Defined SQL functions

```
11
12 • SELECT * FROM fact_sales_monthly
13     WHERE
14         customer_code=90002002 AND
15         get_fiscal_year(date)=2021
16     ORDER BY date asc
17
```

Result Grid				
Filter Rows:				
Edit:				
	date	product_code	customer_code	sold_quantity
▶	2020-09-01	A0118150101	90002002	202
	2020-09-01	A5419110207	90002002	5
	2020-09-01	A0118150102	90002002	162
	2020-09-01	A4218110207	90002002	26
	2020-09-01	A5519110301	90002002	3
	2020-09-01	A2918150102	90002002	296
	2020-09-01	A0118150103	90002002	193
	2020-09-01	A5621110408	90002002	14
	2020-09-01	A3220150403	90002002	781
	2020-09-01	A0118150104	90002002	146
	2020-09-01	A5419110205	90002002	7
	2020-09-01	A0219150201	90002002	149
	2020-09-01	A4021150404	90002002	75
	2020-09-01	A3120150304	90002002	831
	2020-09-01	A6419160302	90002002	204
	2020-09-01	A0219150202	90002002	107
	2020-09-01	A5419110205	90002002	7
	2020-09-01	A0219150201	90002002	149
	2020-09-01	A4021150404	90002002	75
	2020-09-01	A3120150304	90002002	831
	2020-09-01	A6419160302	90002002	204
	2020-09-01	A0219150202	90002002	107

## CREATING A FUNCTION FOR FISCAL YEAR

```
1 • CREATE DEFINER=`root`@`localhost` FUNCTION `get_fiscal_year`(calendar_date DATE) RETURNS int
2     DETERMINISTIC
3 BEGIN
4     DECLARE fiscal_year INT;
5     SET fiscal_year = YEAR(DATE_ADD(calendar_date, INTERVAL 4 MONTH));
6     RETURN fiscal_year;
7 END
```



Call stored function gdb0041.get\_fiscal\_year

Enter values for parameters of your function and click <Execute> to create an SQL editor and run the call:

calendar\_date  DATE

Execute

Cancel

## CREATING A FUNCTION FOR FISCAL YEAR

```
1 • CREATE DEFINER=`root`@`localhost` FUNCTION `GET_FISCAL_QUATER` (CALENDAR_DATE DATE
2   ) RETURNS char(2) CHARSET utf8mb4
3     DETERMINISTIC
4   BEGIN
5     declare m tinyint;
6     declare qtr char(2);
7     SET m = month (calendar_date);
8     CASE
9     when m in (9,10,11)then
10    set qtr ="Q1";
11    when m in (12,1,2)then
12    set qtr ="Q2";
13    when m in (3,4,5)then
14    set qtr ="Q3";
15    else
16    set qtr = "Q4";
17  end case ;
18  RETURN qtr ;
19  END
```

Call stored function gdb0041.GET\_FISCAL\_QUATER

Enter values for parameters of your function and click <Execute> to create an SQL editor and run the call:

CALENDAR\_DATE  DATE

Execute Cancel



## Generate monthly gross sales report for customer using stored procedure

```
1 • CREATE DEFINER=`root`@`localhost` PROCEDURE `get_monthly_gross_sales_for_custo
2   in_customer_codes text
3 )
4 BEGIN
5 SELECT
6   s.date,
7   SUM(ROUND(s.sold_quantity*g.gross_price,2)) as monthly_sales
8 FROM fact_sales_monthly s
9 JOIN fact_gross_price g
10 ON g.fiscal_year=get_fiscal_year(s.date) AND g.product_code=s.product_code
11 WHERE
12   find_in_set(s.customer_code,in_customer_codes)>0
13   GROUP BY date;
14 END
```

Call stored procedure gdb0041.get\_monthly\_gross\_sales\_...

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

in\_customer\_codes  [IN] text

Execute Cancel



## Creating stored procedures to generate report for Top—N customer by Net sales

```
1 CREATE DEFINER=`root`@`localhost` PROCEDURE `get_market_badge`(  
2     IN in_market VARCHAR(45),  
3     IN in_fiscal_year YEAR,  
4     OUT out_level VARCHAR(45)  
5 )  
6 BEGIN  
7     DECLARE qty INT DEFAULT 0;  
8  
9     # Default market is India  
10    IF in_market = "" THEN  
11        SET in_market="India";  
12    END IF;  
13  
14    # Retrieve total sold quantity for a given market in a given year  
15    SELECT  
16        SUM(s.sold_quantity) INTO qty  
17    FROM fact_sales_monthly s  
18    JOIN dim_customer c  
19    ON s.customer_code=c.customer_code  
20    WHERE  
21        get_fiscal_year(s.date)=in_fiscal_year AND  
22        c.market=in_market;  
23  
24    # Determine Gold vs Silver status  
25    IF qty > 5000000 THEN  
26        SET out_level = 'Gold';  
27    ELSE  
28        SET out_level = 'Silver';  
29    END IF;
```

Call stored procedure gdb0041.get\_market\_badge

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

in_market	<input type="text"/>	[IN]	VARCHAR(45)
in_fiscal_year	<input type="text"/>	[IN]	YEAR
out_level	<input type="text"/>	[OUT]	VARCHAR(45)

Execute Cancel

## Creating stored procedures to generate report for Top—N Market by Net sales

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `get_top_n_market_by_net_sales`(  
  in_fiscal_year int,  
  in_top_n int  
)  
BEGIN  
  SELECT  
    market,  
    round(sum(net_sales)/1000000,2) as net_sales_mln  
  FROM gdb0041.net_sales  
  where fiscal_year = in_fiscal_year  
  group by market  
  order by net_sales_mln desc  
  limit in_top_n;  
END  
END
```

Call stored procedure gdb041.get\_top\_n\_markets\_by\_net\_s...

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

in_fiscal_year	<input type="text"/>	[IN] YEAR
in_top_n	<input type="text"/>	[IN] INT

## Creating stored procedures to generate report for Top—N Product by Net sales

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `get_top_n_product_by_net_sales`(  
    in_fiscal_year int,  
    in_top_n int  
)  
BEGIN  
    SELECT  
    product,  
    round(sum(net_sales)/1000000,2) as net_sales_mln  
    FROM gdb0041.net_sales  
    where fiscal_year = in_fiscal_year  
    group by product  
    order by net_sales_mln desc  
    limit in_top_n;  
END  
END
```

Call stored procedure gdb0041.get\_top\_n\_product\_by\_net...

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call:

in_fiscal_year	<input type="text"/>	[IN]	int
in_top_n	<input type="text"/>	[IN]	int

Execute Cancel



**Thank You**