

SQL Queries

AtliQ Hardware's Finance and Supply Chain Analytics Project

1. Croma India product wise sales report for fiscal year – 2021

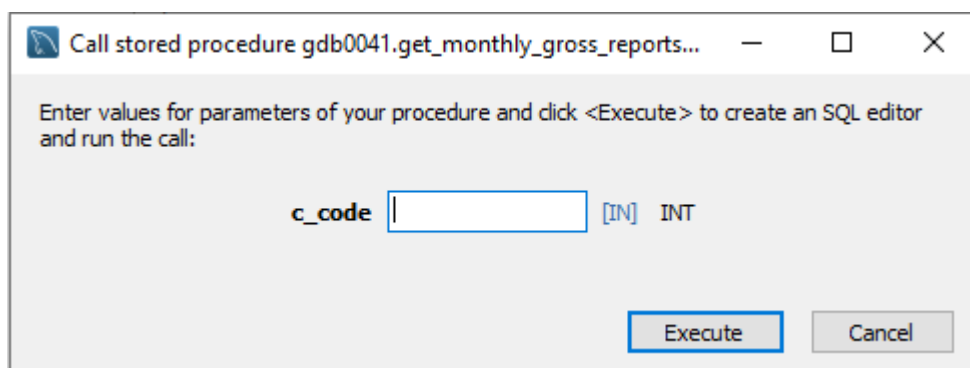
```
SELECT monthname(s.date) as month,
p.product,p.variant,s.sold_quantity,
round(g.gross_price,2) as gross_price,
round(s.sold_quantity * g.gross_price,2) as gross_price_total
FROM fact_sales_monthly s
join dim_product p
using (product_code)
join fact_gross_price g
on g.product_code = s.product_code 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;
```

2. Gross monthly total sales for Croma

```
SELECT monthname(s.date) as month,
round(sum(s.sold_quantity * g.gross_price),2) as gross_price_total
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 s.date
order by date asc;
```

3. Generate monthly gross sales report for any customer using stored procedure

```
CREATE DEFINER=`root`@`localhost` PROCEDURE
`get_monthly_gross_reports_for_customer` (
  c_code INT
)
BEGIN
  select
    s.date,
    sum(round(g.gross_price*sold_quantity,2)) as monthly_sales
  from fact_sales_monthly s
  join fact_gross_price g
  on
    s.product_code=g.product_code and
    g.fiscal_year=get_fiscal_year(s.date)
  where
    customer_code=c_code
  group by s.date;
END
```



Call stored procedure gdb0041.get_monthly_gross_reports...

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

c_code [IN] INT

Execute Cancel

4. Yearly gross sales report for Croma India

```
select g.fiscal_year,  
round(sum(s.sold_quantity * g.gross_price)/1000000,2) as "gross_price_total(in mln)"  
from fact_sales_monthly s  
join fact_gross_price g  
on s.product_code = g.product_code  
and get_fiscal_year(s.date) = g.fiscal_year  
where customer_code = 90002002  
group by g.fiscal_year;
```

5. Top 5 Customers for a Financial Year 2021

```
SELECT c.customer,  
round(sum(net_sales)/1000000,2) as net_sales_mln  
FROM gdb0041.net_sales s  
join dim_customer c  
using (customer_code)  
where fiscal_year = 2021  
group by customer  
order by net_sales_mln desc  
limit 5;
```

6. Top 5 Market for a Financial Year 2021

```
SELECT market,  
round(sum(net_sales)/1000000,2) as net_sales_mln  
FROM gdb0041.net_sales  
where fiscal_year = 2021  
group by market  
order by net_sales_mln desc  
limit 5;
```

7. Net sales % share by Customers

```
with cte as(  
  SELECT c.customer,  
         round(sum(net_sales)/1000000,2) as net_sales_mln  
  FROM gdb0041.net_sales s  
  join dim_customer c  
  using (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_perc  
from cte  
order by net_sales_perc desc  
limit 10;
```

8. Net sales % share by Region – APAC

```
with cte as(select customer,  
               sum(net_sales) as net_sales  
            from net_sales s  
            join dim_customer c  
            using (customer_code)  
            where s.fiscal_year = 2021 and region = "APAC"  
            group by customer  
            order by net_sales desc  
            )  
select customer,round(net_sales*100/sum(net_sales) over(),2) as net_sales_perc  
from cte  
limit 10;
```

9. Top 3 products from each division by total quantity sold in a given year

```
with cte1 as
(
    select
        p.division,
        p.product,
        sum(sold_quantity) as total_qty
    from fact_sales_monthly s
    join dim_product p
    on p.product_code=s.product_code
    where fiscal_year=2021
    group by p.product, p.division),
cte2 as
(
    select
        *,
        dense_rank() over (partition by division order by total_qty desc) as drnk
    from cte1)
select * from cte2 where drnk<=3
```

10. Supply Chain – Forecast Quantity

```
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_error,
        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_error,
        round(sum(abs(s.forecast_quantity-s.sold_quantity))*100/sum(s.forecast_quantity),2) as abs_error_pct
    from fact_act_est s
    join dim_customer c
    on s.customer_code = c.customer_code
    where s.fiscal_year=2021
    group by customer_code
)

select
    *,
    if (abs_error_pct > 100, 0, 100.0 - abs_error_pct) as forecast_accuracy
from forecast_err_table
order by forecast_accuracy desc;
```