

SQL Queries

create report for that contains month, product name, variant sold quantity, gross price per item, gross price total for chroma

```
SELECT s.date,
       s.product_code, p.product, p.variant, s.sold_quantity, g.gross_price,
       ROUND(g.gross_price*s.sold_quantity,2) as total_gross_price
FROM fact_sales_monthly s
JOIN
     dim_product p ON s.product_code=p.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 100000;
```

Get monthly total sales report from chroma in the Indian market

```
SELECT s.date,
       ROUND(SUM(s.sold_quantity*g.gross_price),2) as total_gross_price
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=90002002
GROUP BY s.date
ORDER BY s.date ASC;
```

Get yearly total sales report for chroma for all fiscal years

```
SELECT g.fiscal_year,  
       ROUND(SUM(s.sold_quantity*g.gross_price)/1000000,2) as total_gross_price  
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=90002002  
GROUP BY fiscal_year  
ORDER BY fiscal_year ASC;
```

Top 5 markets by net sales in fiscal year 2021

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

Top 5 products by net sales in fiscal year 2021

```
SELECT product, ROUND(SUM(net_sales)/1000000,2) as net_sales_mil  
FROM net_sales  
WHERE fiscal_year=2021  
GROUP BY product  
ORDER BY net_sales_mil DESC  
LIMIT 5
```

Top 5 customers by net sales in the fiscal year 2021

```
WITH cte1 AS(
SELECT customer,
       ROUND(SUM(net_sales)/1000000,2) as net_sales_mil
FROM net_sales ns JOIN dim_customer c
ON ns.customer_code=c.customer_code
WHERE ns.fiscal_year=2021
GROUP BY customer)
SELECT *,net_sales_mil*100/SUM(net_sales_mil) OVER() AS percent_netsales FROM cte1 ORDER BY net_sales_mil DESC LIMIT 10;
```

Net sales percent region-wise

```
> WITH cte1 AS(
SELECT c.customer,
       c.region,
       ROUND(SUM(net_sales)/1000000,2) as net_sales_mil
FROM net_sales ns JOIN dim_customer c
ON ns.customer_code=c.customer_code
WHERE ns.fiscal_year=2021
GROUP BY c.customer,c.region)
SELECT *, net_sales_mil*100/SUM(net_sales_mil) OVER(PARTITION BY region ) AS percent_netsales_region
FROM cte1
ORDER BY region,net_sales_mil DESC;
```

Top 2 markets in each region for the fiscal year 2021

```
WITH cte1 AS(
    SELECT c.market, c.region, ROUND(SUM(gross_price_total)/1000000,2) as gross_sales_mil
    FROM net_sales ns
    JOIN dim_customer c
    ON ns.customer_code=c.customer_code
    WHERE fiscal_year=2021
    GROUP BY c.market,c.region
    ORDER BY gross_sales_mil DESC),
cte2 as ( select *, dense_rank() over(PARTITION BY region ORDER BY gross_sales_mil DESC) AS rnk FROM cte1)
SELECT * FROM cte2 WHERE rnk<=2;
```

Report for supply chain forecast for all customers in the year 2021

```
WITH forecast_error_table as (
    SELECT
        s.customer_code as customer_code,
        c.customer as customer_name,
        c.market as market,
        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_percent,
        SUM(ABS(s.forecast_quantity-s.sold_quantity)) as abs_net_error,
        ROUND(SUM(ABS(s.forecast_quantity-s.sold_quantity))*100/SUM(s.forecast_quantity),2) as abs_net_error_percent
    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_net_error_percent > 100, 0, 100.0 - abs_net_error_percent) AS forecast_accuracy
FROM forecast_error_table
ORDER BY forecast_accuracy DESC;
```