

# # 1. Product-wise sales report for Croma India - Fiscal Year 2021:

```
SELECT
  s.date,
  s.product_code,
  s.sold quantity,
  p.product,
  p.variant,
  g.gross_price,
  g.gross price * s.sold quantity AS gross price total
FROM
  fact sales monthly s
JOIN
  dim_product p ON p.product_code = s.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(s.date) = 2021
ORDER BY
  s.date ASC
LIMIT
  1000000;
```

### # 2. Gross Monthly Sales Report for Croma:

```
SELECT
  s.date,
  SUM(g.gross_price * s.sold_quantity) 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
  s.date ASC;
# 3. Annual Gross Sales Report for Croma India:
SELECT
  get fiscal year(s.date) AS fiscal year,
  ROUND(SUM(g.gross_price * s.sold_quantity), 2) AS total_gross_sales_amount
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
  get_fiscal_year(s.date)

ORDER BY
  fiscal_year;
```

### # 4. Top Markets for Fiscal Year 2021:

```
SELECT

s.market,

ROUND(SUM(net_sales) / 1000000, 2) AS net_sales_mln

FROM

net_sales s

WHERE

s.fiscal_year = 2021

GROUP BY

s.market

ORDER BY

net_sales_mln DESC

LIMIT

5;
```

## # 5. Top Customers for Fiscal Year 2021:

```
c.customer,

ROUND(SUM(net_sales) / 1000000, 2) AS net_sales_mIn

FROM

net_sales s

JOIN
```

```
dim_customer c ON c.customer_code = s.customer_code
WHERE
 s.fiscal_year = 2021
GROUP BY
 c.customer
ORDER BY
 net_sales_mln DESC
LIMIT
 5;
# 6. Net Sales % Share by Customers:
WITH cte1 AS (
 SELECT
   c.customer,
   ROUND(SUM(s.net_sales) / 1000000, 2) AS net_sales_mln
 FROM
   net_sales s
 JOIN
   dim_customer c ON c.customer_code = s.customer_code
  WHERE
   s.fiscal_year = 2021
 GROUP BY
   c.customer
)
```

**SELECT** 

```
ROUND(net_sales_mln * 100 / SUM(net_sales_mln) OVER(), 2) AS pct
FROM
 cte1
ORDER BY
  net_sales_mln DESC
LIMIT 10;
#7. Net Sales % Share by Region - APAC:
WITH cte1 AS (
 SELECT
   c.customer,
   c.region,
    ROUND(SUM(s.net sales) / 1000000, 2) AS net sales mln
  FROM
    net_sales s
 JOIN
   dim customer c ON c.customer code = s.customer code
  WHERE
   s.fiscal_year = 2021
  GROUP BY
   c.customer, c.region
)
SELECT
 *,
 ROUND(net_sales_mln * 100 / SUM(net_sales_mln) OVER(PARTITION BY region), 2) AS pct
```

**FROM** 

```
cte1
ORDER BY
region, net_sales_mln DESC;
```

#### # 8. Top 2 Markets in each Region by Gross Sales:

```
WITH cte1 AS (
 SELECT
   c.market,
   c.region,
    ROUND(SUM(s.gross price total) / 1000000, 2) AS gross sales mln
  FROM
   gross_sales s
 JOIN
   dim_customer c ON c.customer_code = s.customer_code
  WHERE
    fiscal_year = 2021
  GROUP BY
   c.market, c.region
  ORDER BY
   gross_sales_mln DESC
),
cte2 AS (
 SELECT
   DENSE_RANK() OVER(PARTITION BY region ORDER BY gross_sales_mln DESC) AS drnk
  FROM
    cte1
```

```
)
SELECT
FROM
  cte2
WHERE
  drnk <= 2;
# 9. Supply Chain Forecasted 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), 2) AS
net_error_pct,
    SUM(ABS(s.forecast_quantity - s.sold_quantity)) AS abs_error,
    ROUND(SUM(ABS(s.forecast quantity - 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
s.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;
```