SQL Queries

[1] Croma India product-wise sales report for fiscal year 2021

```
SELECT
   sales.date.
   LEFT(DATE FORMAT(sales.date, '%M'), 3) AS month,
   sales.product code,
   p.product,
   p.variant,
   sales.sold quantity,
   ROUND(gross.gross price,2) AS gross price,
   ROUND((sales.sold quantity * gross.gross price),2) AS
total gross price
FROM fact sales monthly AS sales
 JOIN dim product AS p
 ON
  sales.product code = p.product code
 JOIN fact gross price AS gross
 ON
  sales.product code = gross.product code AND
  get fiscal year(sales.date) = gross.fiscal year
WHERE
  customer code = 90002002 AND
  get fiscal year(sales.date) = 2021
ORDER BY date
LIMIT 1000000:
Function:
CREATE DEFINER='root'@'localhost' FUNCTION
'get fiscal year'(
   calendar date DATE
) RETURNS int
  DETERMINISTIC
BEGIN
```

```
DECLARE fiscal_year YEAR;

SET fiscal_year = YEAR(DATE_ADD(calendar_date,

INTERVAL 4 MONTH));

RETURN fiscal_year;

END
```

[2] Gross monthly total sales report

```
SELECT
CONCAT(LEFT(DATE_FORMAT(sales.date, '%M'),3),
',',YEAR(sales.date)) AS month,
SUM(ROUND(sales.sold_quantity * gross.gross_price,2))
AS monthly_gross_sales

FROM fact_sales_monthly AS sales
JOIN fact_gross_price AS gross
ON
sales.product_code = gross.product_code AND
get_fiscal_year(sales.date) = gross.fiscal_year

WHERE customer_code = 90002002

GROUP BY sales.date
ORDER BY date;
```

[3] Yearly gross sales report

```
SELECT
get_fiscal_year(sales.date) AS fiscal_year,
ROUND(SUM(sales.sold_quantity *
gross.gross_price/1000000),2) AS 'yearly_gross_sales (mln)'

FROM fact_sales_monthly AS sales
JOIN fact_gross_price AS gross
ON
sales.product_code = gross.product_code AND
get_fiscal_year(sales.date) = gross.fiscal_year

WHERE customer_code = 90002002
GROUP BY get_fiscal_year(sales.date)
ORDER BY fiscal_year;
```

[4] Top markets, products and customers for a given fiscal year

Market:

```
CREATE DEFINER=`root`@`localhost` PROCEDURE
`get_top_N_markets_by_net_sales`(
    in_fiscal_year INT,
    in_top_N INT
)

BEGIN
    SELECT
    market,
    ROUND(SUM(net_sales/1000000),2) AS net_sales_mIn
    FROM gdb0041.net_sales
    WHERE fiscal_year = in_fiscal_year
    GROUP BY market
    ORDER BY net_sales_mIn desc
    LIMIT in_top_N;

END
```

Products:

Customers:

```
CREATE DEFINER=`root`@`localhost` PROCEDURE
`get top N customers by net sales`(
      in_fiscal_year INT,
     in top N INT,
     in market VARCHAR(40)
BEGIN
  SELECT
    customer.
    ROUND(SUM(net sales/1000000),2) AS net sales mln
  FROM gdb0041.net sales AS n
  JOIN dim customer AS c
    ON c.customer code = n.customer code
  WHERE
     n.fiscal year = in fiscal year AND
     n.market = in market
  GROUP BY customer
  ORDER BY net sales mln desc
     LIMIT in top N;
END
```

[5] Net sales % share by Customers

```
ROUND(net_sales_mln*100/SUM(net_sales_mln) over(),2) AS pct_net_sales FROM cte1
ORDER BY net_sales_mln desc;
```

[6] Net sales % share by different Regions

```
with cte1 AS(
SELECT
          c.customer,
    c.region,
    ROUND(SUM(net sales/1000000),2) AS net sales mln
FROM net sales AS n
JOIN dim customer AS c
 ON c.customer code = n.customer code
WHERE
     n.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 net sales
FROM cte1
ORDER BY region, net sales mln desc;
```

[7] Top 2 markets in every region by their gross sales for a given fiscal year

```
WITH cte1 AS
(SELECT
g.market,
c.region,
ROUND(SUM(g.total_gross_price/1000000),2) AS
gross_sales_mln

FROM gross_sales AS g
JOIN dim_customer AS c
ON g.customer_code = c.customer_code
WHERE g.fiscal_year = 2021
```

```
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;
```

[8] Top 2 products per division by their sold quantity for a given fiscal year

```
WITH cte1 AS
(SELECT
   p.division,
   p.product,
   SUM(sold quantity) AS total quantity
FROM fact sales monthly AS s
JOIN dim product AS p
 ON p.product code = s.product code
WHERE s.fiscal year = 2021
GROUP BY p.product, p.division),
cte2 AS
(SELECT *,
       dense rank() over(partition by division order by
total_quantity desc) AS drnk
FROM cte1)
SELECT * FROM cte2
WHERE drnk <= 3;
```