## 1. View for Gross Sales?

```
CREATE VIEW 'gross sales' AS
  SELECT
        s.date, s.fiscal year,
        s.customer code, c.customer,
        c.market, s.product code,
        p.product, p.variant,
        s.sold quantity,
        g.gross_price as gross_price_per_item,
        round(s.sold quantity*g.gross price,2) as gross price total
  from fact sales monthly s
  join dim product p
  on
        s.product code=p.product code
  join dim_customer c
  on
        s.customer\_code = c.customer\_code
  join fact gross price g
  on
        g.fiscal year=s.fiscal year and
        g.product code=s.product code;
```

2. View for pre invoice discount deduction.

```
CREATE VIEW `sales_preinvoice_dis` AS

Select

s.date, s.fiscal year,
```

```
s.customer code, c.market,
           s.product code,
           s.sold_quantity, g.gross_price,
           (s.sold_quantity*g.gross_price) as gross_price_total,
           pre.pre invoice discount pct
from gdb0041.fact sales monthly s
JOIN dim customer c
on
     c.customer code = s.customer code
JOIN fact gross price g
on
     s.product code = g.product code and
     s.fiscal_year = g.fiscal_year
join fact pre invoice deductions pre
on
     s.customer code = pre.customer code and
     s.fiscal year = pre.fiscal year;
```

3. View for post invoice discount deduction.

```
CREATE VIEW `sales_post_invoice_dis` AS
```

select

```
pr.date, pr.fiscal_year, pr.customer_code, pr.market,
    pr.product code,p.product,p.variant, pr.sold quantity,
pr.gross_price,
    pr.gross price total, pr.pre invoice discount pct,
    (1-pr.pre invoice discount pct)*pr.gross price total as
net invoice sale,
    (po.discounts pct + po.other deductions pct) as
total discount
from sales_preinvoice_dis pr
join dim product p
on
     pr.product_code = p.product_code
join fact post invoice deductions po
on
     pr.date = po.date and
  pr.customer code = po.customer code and
  pr.product_code = po.product_code;
```

4. View for Net Sales.

**SELECT** 

\*,

```
((1-total discount)* net invoice sale) as net sales
    FROM gdb0041.sales post invoice dis;
5. Top 5 Market net sales.
     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;
6. Stored procedure that return top n market in given fiscal year.
  CREATE PROCEDURE 'top n market by net sales and fiscal year' (
     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
7. Stored procedure that return top n customer by given fiscal year and
  market.
  CREATE PROCEDURE 'get top n customer by net sales' (
     in market varchar(45),
     in_fiscal_year int,
    in top n int
  BEGIN
  SELECT
          c.customer,
      round(sum(n.net sales)/1000000,2) as net sales mln
  FROM gdb0041.net sales n
  join dim customer c
  on
     n.customer code = c.customer code
```

```
where
     fiscal year = in fiscal year and
    n.market = in_market
  group by c.customer
  order by net_sales_mln desc
  limit in_top_n
  END
8. Stored Procedure of Top n product by given fiscal year.
  CREATE PROCEDURE `top_n_product_by_fiscal_year` (
          in_fiscal_year int,
      in top nint
  )
  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
  limit in top n;
  END
9. Query for the market share percentage of customer net sales in the
  fiscal year 2021.
  With cte as (SELECT
          c.customer,
       round(sum(n.net_sales)/1000000,2) as net_sales_mln
  FROM gdb0041.net_sales n
  join dim_customer c
  on
     n.customer_code = c.customer_code
  where
     fiscal year = 2021
  group by c.customer
  select
     *, net_sales_mln/sum(net_sales_mln) over() *100 as pct
  from cte
  order by net sales mln desc
```

10. Query for Breakdown of net sales percentages by customer in each region (APAC, NA, EU, LATAM).

```
with cte as (select
          c.customer,
    c.region,
    round(sum(net_sales)/1000000,2) as net_sales_mln
from net sales s
join dim customer c
on
     s.customer_code = c.customer_code
where fiscal year = 2021
group by c.customer, c.region)
select
     net_sales_mln*100/sum(net_sales_mln) over(partition by
     region) as pct share region
from cte
order by region, net sales mln desc
```

```
11.
     Stored procedure for retrieving the top N products by quantity
  sold per division.
  CREATE PROCEDURE `get_top_n_product_per_division_by_qty_sold`
  (
           in fiscal year int,
       in_top_n int
  BEGIN
  with cte as (select
                      p.division,
                      p.product,
                      sum(s.sold_quantity) as total_qty
              from fact sales monthly s
              join dim product p
                      on s.product code = p.product code
               where fiscal year = in fiscal year
               group by p.product, p.division),
  cte2 as (select
                dense rank() over(partition by division order by
  total qty desc) as drnk
```

from cte)

```
select * from cte2 where drnk <= in_top_n;
END</pre>
```

12. Retrieve the top 2 markets in every region by their gross sales amount in FY=2021.

```
with cte as (SELECT
        c.market,
    c.region,
    round(sum(s.gross price total)/1000000,2) as gross sale mln
FROM gdb0041.gross sales s
join dim customer c
  on s.customer code = c.customer code
where fiscal year = 2021
group by c.market, c.region),
cte2 as
(select
  *, dense rank() over(partition by region order by gross sale mln
desc) as rnk
from cte)
```

select \* from cte2 where rnk <=2;</pre>