PROBLEM STATEMENT AND SOLUTION

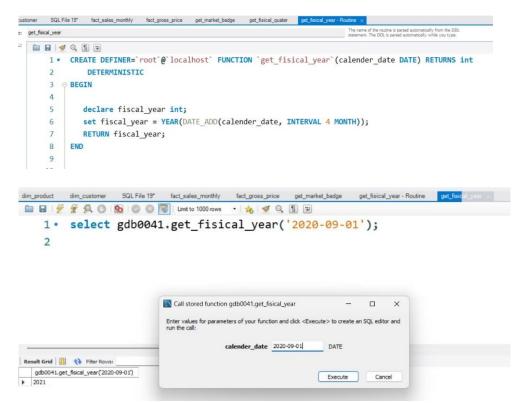
1/ Generate a report of individual product sales (aggregated on a monthly basis) for CROMA India customer for FY= 2021

The report should have the following fields,

- 1. Month
- 2. Product Name
- 3. Variant
- 4. Sold Quantity
- 5. Gross Price per item
- 6. Gross price total
- -- a/ first grab customer codes for Croma india

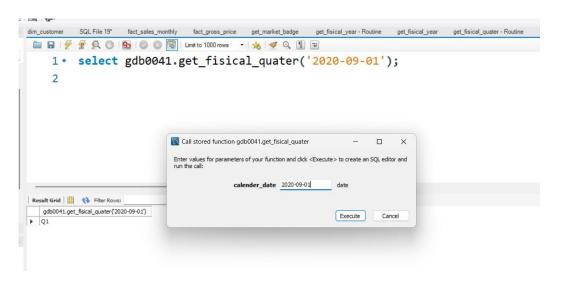
SELECT * FROM gdb0041.dim_customer where customer like "%Croma%" AND market="India";

--b/ create a function 'get_fiscal_year' to get fiscal year by passing the date



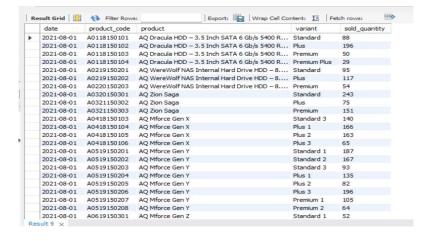
--c/ create a function 'get_fisical_quater' to get fiscal year by passing the date

```
dim_customer SQL File 19* fact_sales_monthly fact_gross_price get_market_badge get_fisical_year - Routine get_fisical_year get_fisical_quater
Name: get_fisical_quater
DDL:
       CREATE DEFINER=`root`@`localhost` FUNCTION `get_fisical_quater`(calender_date date) RETURNS char(2) CHARSET utf8mb4
                      DETERMINISTIC
                ⊖ BEGIN
                  declare m tinvint:
                  declare gtr char(2):
                      set m = month(calender_date);
                         when m in (9,10,11) then
                         set gtr = "01";
                         when m in (12,1,2) then
           10
                         set qtr = "Q2";
           12
                         when m in (3,4,5) then
           13
                         set qtr = "Q3";
           14
                        ELSE
                         set qtr = "Q4";
           17
                  RETURN qtr;
           18
                  END
```

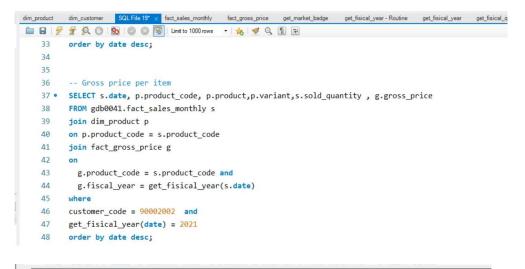


--d / sold quantity

```
26  -- sold quantity
27    SELECT s.date, p.product_code, p.product,p.variant,s.sold_quantity
28    FROM gdb0041.fact_sales_monthly s join dim_product p
29    on p.product_code = s.product_code
30    where customer_code = 90002002 and
31    get_fisical_year(date) = 2021
32    order by date desc;
```

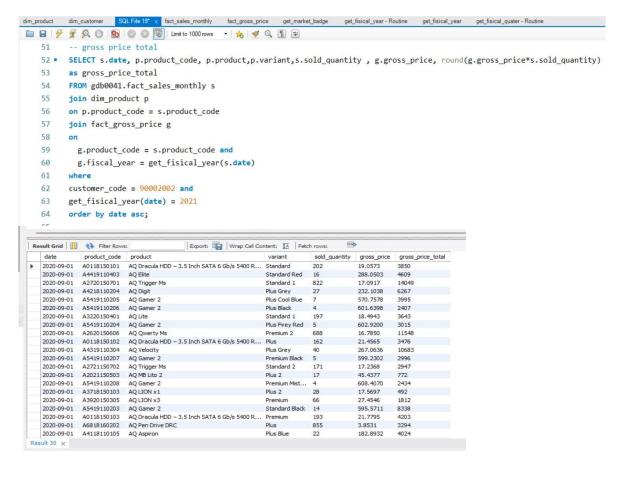


--e/ Gross Price per item



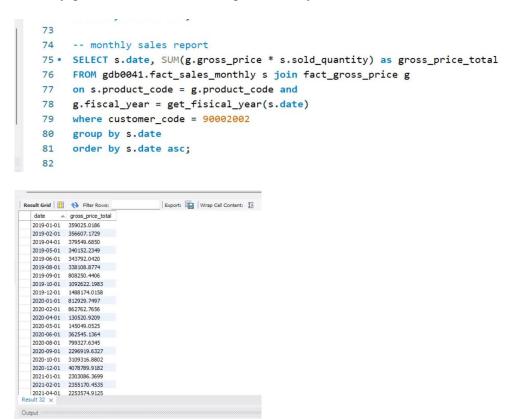
	date	product_code	product	variant	sold_quantity	gross_price	
•	2021-08-01	A3521150703	AQ Trigger	Plus 1	380	31.7665	
	2021-08-01	A2620150606	AQ Qwerty Ms	Premium 2	992	16.7850	
	2021-08-01	A7321160302	AQ Wi Power Dx3	Plus	193	43.9446	
	2021-08-01	A4620110603	AQ Gen Y	Standard Red	31	366.0459	
	2021-08-01	A0118150101	AQ Dracula HDD - 3.5 Inch SATA 6 Gb/s 5400 R	Standard	88	19.0573	
	2021-08-01	A5519110303	AQ Gamer 3	Standard Black	11	604.2721	
	2021-08-01	A7321160301	AQ Wi Power Dx3	Standard	459	40.7954	
	2021-08-01	A2021150503	AQ MB Lito 2	Plus 2	35	45.4377	
	2021-08-01	A0118150102	AQ Dracula HDD - 3.5 Inch SATA 6 Gb/s 5400 R	Plus	196	21.4565	
	2021-08-01	A7220160203	AQ Wi Power Dx2	Premium	586	37.4784	
	2021-08-01	A5519110302	AQ Gamer 3	Standard Cool	10	605.8642	
	2021-08-01	A3420150601	AQ Qwerty	Standard 1	414	24.5690	
	2021-08-01	A7220160202	AQ Wi Power Dx2	Plus	264	35.2053	
	2021-08-01	A0118150103	AQ Dracula HDD - 3.5 Inch SATA 6 Gb/s 5400 R	Premium	50	21.7795	
	2021-08-01	A7219160201	AQ Wi Power Dx2	Standard	531	32.9575	
	2021-08-01	A7119160103	AQ Wi Power Dx1	Premium	137	28.7736	
	2021-08-01	A0118150104	AQ Dracula HDD - 3.5 Inch SATA 6 Gb/s 5400 R	Premium Plus	29	22.9729	
	2021-08-01	A5519110301	AQ Gamer 3	Standard Fire	5	589.7411	
	2021-08-01	A3920150305	AQ LION x3	Premium	53	27.4546	
	2021-08-01	A7119160102	AQ Wi Power Dx1	Plus	454	29.9264	
	2021-08-01	A4419110406	AQ Elite	Plus Red	23	287.5666	
	2021-08-01	A0219150201	AQ WereWolf NAS Internal Hard Drive HDD -8	Standard	95	23.6987	
	2021-08-01	A2620150605	AQ Qwerty Ms	Premium 1	603	16.5882	
	2021-08-01	A7118160101	AQ Wi Power Dx1	Standard	251	29.6712	
Dat	2021-08-01 sult 25 ×	A6819160203	AO Pen Drive DRC	Premium	436	5.0984	

--f/ Gross price total



2/ Gross Sales Report: Total Sales Amount

--a/ Aggregate Monthly Gross Sales Report for CROMA India for all the years: Prepare a report on aggregate monthly gross sales to track sales generated by CROMA India.



--b / Croma yearly gross sale report

```
-- croma yerly gross sale report

84 • SELECT get_fisical_year(s.date) as fiscal_year, SUM(g.gross_price * s.sold_quantity)

85 as gross_price_total FROM gdb0041.fact_sales_monthly s join fact_gross_price g

86 on s.product_code = g.product_code and

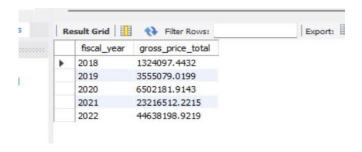
87 g.fiscal_year = get_fisical_year(s.date)

88 where customer_code = 90002002

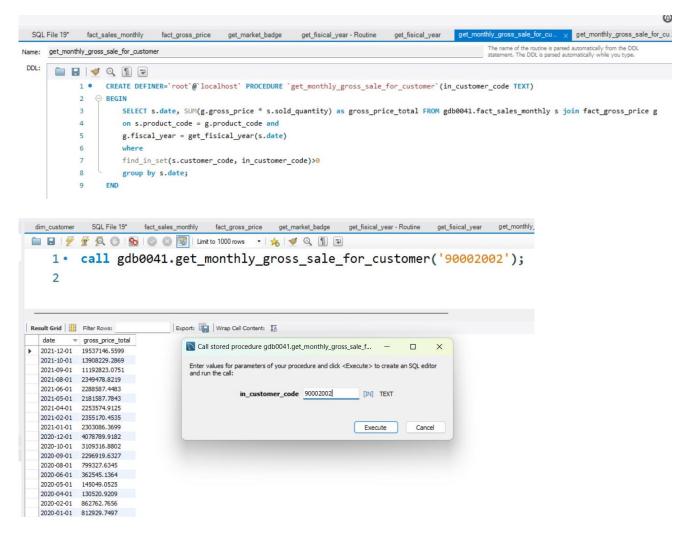
89 group by get_fisical_year(s.date)

90 order by fiscal_year;

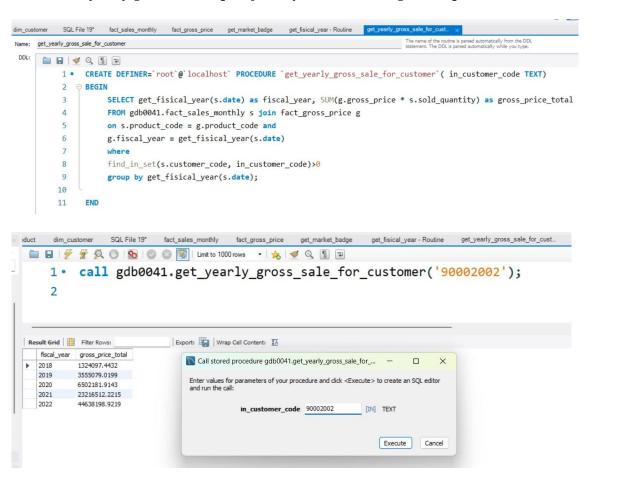
91
```



-- Generate monthly gross sales report for any customer using stored procedure



-- Generate yearly gross sales report for any customer using stored procedure



--Market Badge Determination: Create a stored procedure to determine the market badge (Gold or Silver) based on the total sold quantity.

