**Generate a Yearly Report of Croma India with two columns:**

1. **Fiscal year**
2. **Total Gross Sales in that year of Croma**

**Step-by-Step Query Construction to Generate the Report**

Get customer\_code of Croma

select \* from dim\_customer where customer like "%croma%" and market="india";

from the output, customer\_code of croma is 90002002

Search for transactions with the customer\_code 90002002 from fact\_sales\_monthly

select \* from fact\_sales\_monthly where customer\_code=90002002;

In the tables we have the calender dates. so we need to change the calender dates to fiscal year

select \* from fact\_sales\_monthly where

customer\_code=90002002 and

YEAR(DATE\_ADD(date,INTERVAL 4 MONTH)) = 2021

Alternatively created a function to get fiscal year

CREATE FUNCTION 'get\_fiscal\_year' (calender\_date DATE) returns INTEGER

DETERMINISTIC

BEGIN

DECLARE fiscal\_year INT

SET fiscal\_year = YEAR(DATE\_ADD(calender\_date,INTERVAL 4 MONTH));

RETURN fiscal\_year;

END

select get\_fiscal\_year(s.date) as fiscal\_year,

sum(g.gross\_price\*s.sold\_quantity as yearly\_sales

from fact\_sales\_monthly s

join fact\_gross\_price g

on g.fiscal\_year=get\_fiscal\_year(s.date) and

g.product\_code=s.product\_code and

where customer\_code = 90002002

group by get\_fiscal\_year(s.date)

order by fiscal\_year

**Created the stored with the same code as :**

CREATE PROCEDURE ‘get\_yearly\_gross\_sales\_for\_customer’(c\_code int)

BEGIN

select get\_fiscal\_year(s.date) as fiscal\_year,

sum(g.gross\_price\*s.sold\_quantity as yearly\_sales

from fact\_sales\_monthly s

join fact\_gross\_price g

on g.fiscal\_year=get\_fiscal\_year(s.date) and

g.product\_code=s.product\_code and

where customer\_code = c\_code

group by get\_fiscal\_year(s.date)

order by fiscal\_year

END

By creating stored procedure we will be able to use the query for other customers with customer\_code easily.

Function returns a single value

Stored procedure will return any value/no of values/table just like any sql statement.

We got the desired data of the report (3006 rows) through the above query Exported report as 'croma\_2021\_transacs' as csv file