

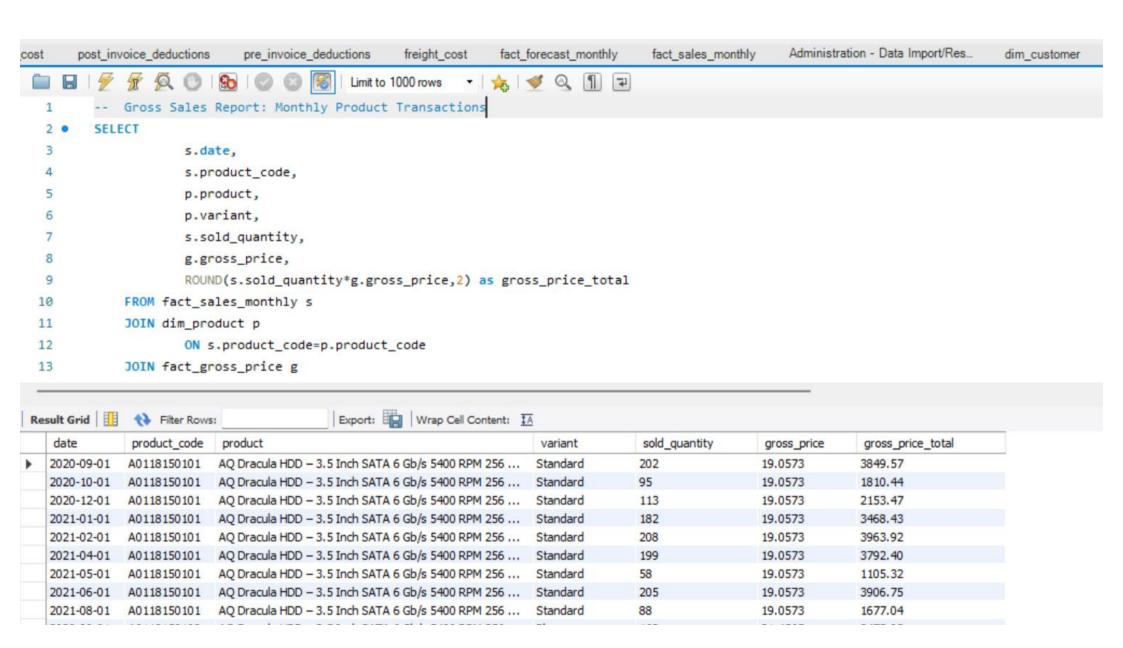


Query

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<u>Gross Sales Report: Monthly Product Transactions</u>

```
SELECT
        s.date,
        s.product code,
        p.product,
        p.variant,
        s.sold quantity,
        g.gross_price,
        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 fact gross price g
        ON g.fiscal_year=get_fiscal_year(s.date)
    AND g.product_code=s.product_code
WHERE
        customer code=90002002 AND
        get_fiscal_year(s.date)=2021
LIMIT 1000000;
```



```
! Function !

Q create a function 'get_fiscal_year' to getfiscal year by passing the date

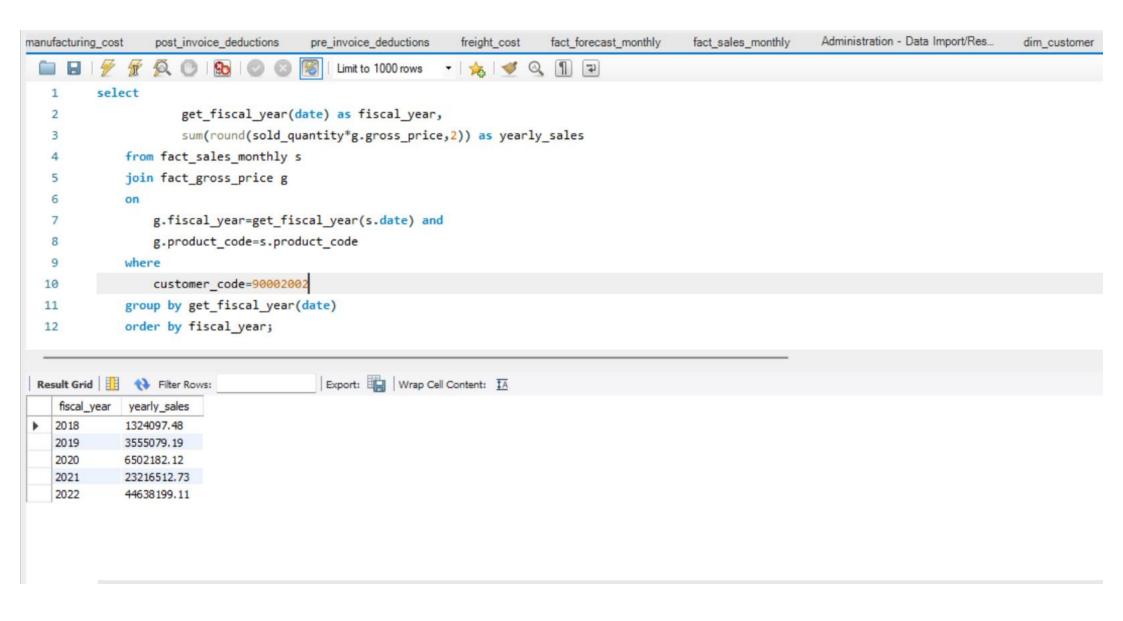
CREATE FUNCTION `get_fiscal_year`(calendar_date DATE)
RETURNS int
    DETERMINISTIC

BEGIN

DECLARE fiscal_year INT;
SET fiscal_year = YEAR(DATE_ADD(calendar_date, INTERVAL 4 MONTH));
RETURN fiscal_year;
END
```



Q) Generate a yearly report for Croma India where there are two columns 1.Fiscal Year 2. Total Gross Sales select





Q Difference between Function and Procedure:

Function

- 1. Functions always return a value after the execution of queries.
- 2. A Function can not return multiple result sets.
- 3. The function can be called using Stored Procedure.
- 4. A function used only to read data.
- A function can be operated in the SELECT statement.
- Functions do not permit transaction management.

Procedure

- 1. The procedure can return a value using "IN OUT" and "OUT" arguments.
- A procedure is able to return multiple result sets.
- 3. While procedures cannot be called from function.
- 4. A procedure can be used to read and modify data.
- While it can't be operated in the SELECT statement.
- 6. It allows transaction management.