





Query

Q Get all the sales transaction data from fact_sales_monthly table for that customer cromia in the fiscal_year 2021

```
SELECT * FROM fact_sales_monthly
WHERE
    customer_code=90002002 AND
    YEAR(DATE_ADD(date, INTERVAL 4 MONTH))=2021
ORDER BY date asc
LIMIT 100000;
```



Gross Sales Report: Monthly Product Transactions

```
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;
```



```

1  -- Gross Sales Report: Monthly Product Transactions
2  •  SELECT
3      s.date,
4      s.product_code,
5      p.product,
6      p.variant,
7      s.sold_quantity,
8      g.gross_price,
9      ROUND(s.sold_quantity*g.gross_price,2) as gross_price_total
10 FROM fact_sales_monthly s
11 JOIN dim_product p
12     ON s.product_code=p.product_code
13 JOIN fact_gross_price g
  
```

Result Grid Filter Rows: | Export: | Wrap Cell Content:

	date	product_code	product	variant	sold_quantity	gross_price	gross_price_total
▶	2020-09-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	202	19.0573	3849.57
	2020-10-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	95	19.0573	1810.44
	2020-12-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	113	19.0573	2153.47
	2021-01-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	182	19.0573	3468.43
	2021-02-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	208	19.0573	3963.92
	2021-04-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	199	19.0573	3792.40
	2021-05-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	58	19.0573	1105.32
	2021-06-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	205	19.0573	3906.75
	2021-08-01	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 ...	Standard	88	19.0573	1677.04



! 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
```



Query

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

```
select
    get_fiscal_year(date) as fiscal_year,
    sum(round(sold_quantity*g.gross_price,2)) 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
where
    customer_code=90002002
group by get_fiscal_year(date)
order by fiscal_year;
```




```

1  select
2      get_fiscal_year(date) as fiscal_year,
3      sum(round(sold_quantity*g.gross_price,2)) as yearly_sales
4  from fact_sales_monthly s
5  join fact_gross_price g
6  on
7      g.fiscal_year=get_fiscal_year(s.date) and
8      g.product_code=s.product_code
9  where
10     customer_code=90002002
11  group by get_fiscal_year(date)
12  order by fiscal_year;
    
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

	fiscal_year	yearly_sales
▶	2018	1324097.48
	2019	3555079.19
	2020	6502182.12
	2021	23216512.73
	2022	44638199.11



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.
5. A function can be operated **in** the **SELECT** statement.
6. Functions do **not** permit transaction management.

Procedure

1. The procedure can return a value using "IN OUT" and "OUT" arguments.
2. 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.
5. While it can't be operated **in** the **SELECT** statement.
6. It allows transaction management.