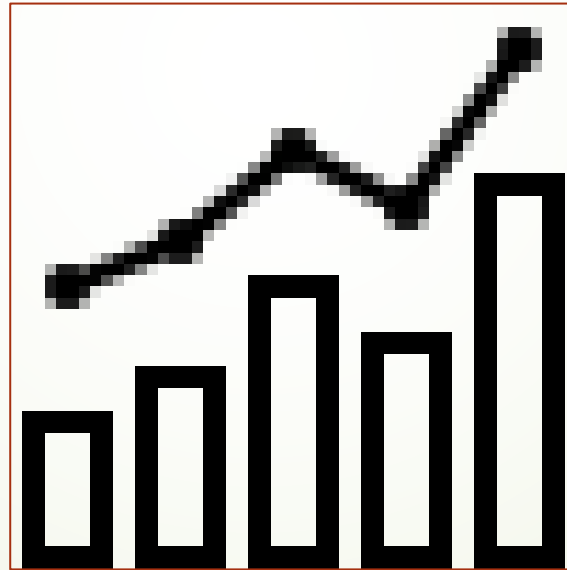


FINANCIAL ANALYTICS



Q – Find out the Total Gross Price of a company

Query

```
SELECT
    GET_FISCAL_YEAR(S.DATE) , SUM(G.GROSS_PRICE*S.SOLD_QUANTITY) AS GROSS_PRICE_TOTAL
FROM FACT_SALES_MONTHLY S
JOIN FACT_GROSS_PRICE G
ON
    G.PRODUCT_CODE=S.PRODUCT_CODE AND
    G.FISCAL_YEAR=GET_FISCAL_YEAR (DATE)
WHERE
    CUSTOMER_CODE=90002002      # CUSTOMER FOR 'CROMA CUSTOMER'
GROUP BY GET_FISCAL_YEAR(S.DATE)
ORDER BY GET_FISCAL_YEAR(S.DATE) DESC;
```

OutPut :

get_fiscal_year(s.date)	gross_price_total
2022	44638198.92
2021	23216512.22
2020	6502181.914
2019	3555079.02
2018	1324097.443

Q – Return top 'N customers' by net sales in that given 'fiscal year' and 'market'

Query

```
CREATE PROCEDURE `get_top_n_customers_by_net_sales`(  
    in_market VARCHAR(45),  
    in_fiscal_year INT,  
    in_top_n INT  
)  
BEGIN  
    select  
        customer,  
        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  
        s.fiscal_year=in_fiscal_year  
        and s.market=in_market  
    group by customer  
    order by net_sales_mln desc  
    limit in_top_n;  
END
```

OutPut :

customer	net_sales_mln
Amazon	5.67
Atliq Exclusive	4.19
Flipkart	2.38
Electricalsociety	2.17
Vijay Sales	2.12

Q – Return top 'N Products per Division' by sold quantity in that given 'fiscal year' and 'market'

Query

```
CREATE PROCEDURE `get_top_n_products_per_division_by_qty_sold` (
    in_fiscal_year INT,
    in_top_n INT
)
BEGIN
    with cte1 as (
        select
            p.division,
            p.product,
            sum(sold_quantity) as total_qty
        from fact_sales_monthly s
        join dim_product p
        on p.product_code=s.product_code
        where fiscal_year=in_fiscal_year
        group by p.product),
        cte2 as (
            select *,
                dense_rank() over (partition by division order by total_qty desc) as DRNK
        from cte1)
    select * from cte2 where drnk <= in_top_n;
END
```

OutPut :

division	product	QTY	DRNK
N & S	AQ Pen Drive DRC	2034569	1
N & S	AQ Digit SSD	1240149	2
N & S	AQ Clx1	1238683	3
P & A	AQ Gamers Ms	2477098	1
P & A	AQ Maxima Ms	2461991	2
P & A	AQ Master wireless x1 Ms	2448784	3

Q – Return top 'N Markets' by Net Sales in that given 'fiscal year'

Query

```
CREATE PROCEDURE `Top_N_Markets_by_NetSales`  
  (in_fiscal_year year, in_TopN INT)  
  
BEGIN  
  (Select market,  
    round(sum(net_sales)/1000000,2) as net_sales_mln  from net_sales  
  where fiscal_year=in_fiscal_year  
  group by market  
  order by net_sales_mln desc  
  limit in_TopN;  
  
END
```

OutPut :

market	net_sales_mln
India	37.77
USA	16.16
South Korea	15.69
Philippines	6.95
Canada	5.85
France	5.44

Q – Return top 'N Products per Division' by sold quantity in that given 'fiscal year' and 'market'

Query

```
CREATE PROCEDURE `get_market_badge` (  
    IN in_market VARCHAR(45),  
    IN in_fiscal_year YEAR,  
    OUT out_level VARCHAR(45)  
)  
BEGIN  
    DECLARE qty INT DEFAULT 0;  
  
    # Default market is India  
    IF in_market = "" THEN  
        SET in_market="India";  
    END IF;  
  
    # Retrieve total sold quantity for a given market in a given year  
    SELECT  
        SUM(s.sold_quantity) INTO qty  
    FROM fact_sales_monthly s  
    JOIN dim_customer c  
    ON s.customer_code=c.customer_code  
    WHERE  
        get_fiscal_year(s.date)=in_fiscal_year AND  
        c.market=in_market;  
  
    # Determine Gold vs Silver status  
    IF qty > 5000000 THEN  
        SET out_level = 'Gold';  
    ELSE  
        SET out_level = 'Silver';  
    END IF;  
  
END
```

OutPut : 'Silver' Market = America, Fiscal Year = 2019