SQL Queries

Atliq Hardwares Finance and Supply Chain Analytics Project

#1Q.create report than contains Month,product name,variant

```
#sold quantity,gross price per item,gross price total
```

2Q.total gross price per date

```
SELECT monthname(s.date) as month,

round(sum(s.sold_quantity * g.gross_price),2) 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(s.date)

where

customer_code = 90002002

group by s.date

order by date asc;
```

#3Q.total gross price per FY

```
select q.fiscal_year,
round(sum(s.sold_quantity * q.gross_price)/1000000,2) as "gross_price_total(in mln)"
from fact_sales_monthly s
join fact_gross_price g
on s.product_code = g.product_code
and get_fiscal_year(s.date) = g.fiscal_year
where customer_code = 90002002
group by g.fiscal_year;
#4Q Top cutomers by Net Sales
SELECT c.customer,
round(sum(net_sales)/1000000,2) as net_sales_mln
FROM gdb0041.net_sales s
join dim_customer c
using (customer_code)
where fiscal\_year = 2021
group by customer
order by net_sales_mln desc
limit 5;
#5Q Top markets by Net Sales
SELECT market,
round(sum(net_sales)/1000000,2) as net_sales_mln
FROM gdb0041.net_sales
```

SELECT market,
round(sum(net_sales)/1000000,2) as net_sales_mlr
FROM gdb0041.net_sales
where fiscal_year = 2021
group by market
order by net_sales_mln desc
limit 5;

#6Q top 10 customers by net_sales_% contribution

with cte as(

SELECT c.customer,

round(sum(net_sales)/1000000,2) as net_sales_mln

```
FROM gdb0041.net_sales s
       join dim_customer c
       using (customer_code)
       where s.fiscal_year = 2021
group by customer
       order by net_sales_mln desc
)
select *,
round(net_sales_mln*100/sum(net_sales_mln) over(),2) as net_sales_perc
from cte
order by net_sales_perc desc
limit 10;
# 7Q. region wise net sales breakdown
with cte as(select customer,
sum(net_sales) as net_sales
from net_sales s
join dim_customer c
using (customer_code)
where s.fiscal_year = 2021 and region = "APAC"
group by customer
order by net_sales desc
select customer,round(net_sales*100/sum(net_sales) over(),2) as net_sales_perc
from cte
limit 10;
#8Q.Retrieve the top 2 markets in every region by their gross sales amount
#in FY=2021.
with cte1 as(
SELECT c.region, c.market,
sum(g.gross_price_total) as gross_sales_total
FROM gdb0041. `gross sales` g
```

```
join dim_customer c
using (customer_code)
group by 1,2),
cte2 as(
select *, dense_rank() over(partition by region
order by gross_sales_total desc) as rnk
from cte1)
select * from cte2
where rnk \le 2;
#9Q. supply chain - forecast quantity
with forecast_err_table as (
       select
          s.customer_code as customer_code,
          c.customer as customer name,
          c.market as market,
          sum(s.sold_quantity) as total_sold_qty,
          sum(s.forecast_quantity) as total_forecast_qty,
          sum(s.forecast_quantity-s.sold_quantity) as net_error,
          round(sum(s.forecast_quantity-s.sold_quantity)*100/sum(s.forecast_quantity),1)
as net_error_pct,
          sum(abs(s.forecast_quantity-s.sold_quantity)) as abs_error,
          round(sum(abs(s.forecast quantity-
sold_quantity))*100/sum(s.forecast_quantity),2) as abs_error_pct
       from fact_act_est s
       join dim_customer c
       on s.customer_code = c.customer_code
       where s.fiscal_year=2021
       group by customer_code)
       select *,
      if (abs_error_pct > 100, 0, 100.0 - abs_error_pct) as forecast_accuracy
       from forecast err table
    order by forecast_accuracy desc;
```