SQL-07 | CTEs, Views, Union and Self Joins

Lecture Queries

Question: We want to design the dataset to have one row per date and vendor, we do not need to include detailed information about the customers or products.

OR

Question : Get total sales as per vendor across complete duration?

Question 1 : Get total sales as per vendor across complete duration ?
And
Question 2: We want to design the dataset to have one row per date and vendor, we do not need to include detailed information about the customers or products.

```
SELECT
    cp.market_date,
    md.market_day,
    md.market_week,
    md.market_year,
    cp.vendor_id,
    v.vendor_name,
    v.vendor_type,
    ROUND(SUM(cp.quantity * cp.cost_to_customer_per_qty),2) AS sales
FROM farmers_market.customer_purchases AS cp
    LEFT JOIN farmers_market.market_date_info AS md
        ON cp.market_date = md.market_date
    LEFT JOIN farmers_market.vendor AS v
        ON cp.vendor_id = v.vendor_id
GROUP BY cp.market_date, cp.vendor_id
ORDER BY cp.market_date, cp.vendor_id
```

Question: if we wanted to reuse the previous query we wrote to generate the dataset of sales summarized by date and vendor for a report that summarizes sales by market week, we could put that query inside a WITH clause.

Question: if we wanted to reuse the previous query we wrote to generate the dataset of sales summarized by date and vendor for a report that summarizes sales by market week, we could put that query inside a WITH clause.

```
WITH sales_by_day_vendor AS (
SELECT
    cp.market_date,
    md.market_day,
    md.market_week,
    md.market_year,
    cp.vendor_id,
    v.vendor_name,
    v.vendor_type,
    ROUND(SUM(quantity * cost_to_customer_per_qty),
2) AS total_sales
FROM farmers_market.customer_purchases AS cp
    LEFT JOIN farmers_market.market_date_info AS md
        ON cp.market_date = md.market_date
    LEFT JOIN farmers_market.vendor AS v
        ON cp.vendor_id = v.vendor_id
GROUP BY
        cp.market_date,
        cp.vendor_id,
        md.market_day,
        md.market_week,
        md.market_year,
        v.vendor_name,
        v.vendor_type
ORDER BY cp.market_date, cp.vendor_id
)

SELECT s.market_year,
    s.market_week,
    SUM(s.total_sales) AS weekly_sales
FROM sales_by_day_vendor AS s
GROUP BY s.market_year, s.market_week
```