SQL-02 | Filtering and Subqueries

Lecture Queries

Question: Find the booth assignments for vendor 7 for any market date that occurred between April 3, 2019, and May 16, 2019, including either of the two dates.

```
SELECT *
 FROM farmers_market.vendor_booth_assignments
 WHERE
        vendor_id = 7
      AND market_date BETWEEN '2019-04-03' and '2019-05-16'
 ORDER BY market_date
```

Question: Return a list of customers with selected last names - [Diaz, Edwards and Wilson].

Approach 1:

```
SELECT
    customer_id,
    customer_first_name,
    customer_last_name
 FROM farmers_market.customer
 WHERE
    customer_last_name = 'Diaz'
    OR customer_last_name = 'Edwards'
    OR customer_last_name = 'Wilson'
 ORDER BY customer_last_name, customer_first_name
```

Approach 1:

```
SELECT
    customer_id,
    customer_first_name,
    customer_last_name
 FROM farmers_market.customer
 WHERE
    customer_last_name IN ('Diaz' , 'Edwards', 'Wilson')
 ORDER BY customer_last_name, customer_first_name
```

Question: Return all products without sizes.

```
SELECT *
FROM farmers_market.product
WHERE
    product_size IS NULL
    OR TRIM(product_size) = ‘’
```

Question: You want to get data about a customer you knew as “Jerry,” but you aren’t sure if he was listed in the database as “Jerry” or “Jeremy” or “Jeremiah.”

How would you get the data from this partial string?

```
SELECT
    customer_id,
    customer_first_name,
    customer_last_name
 FROM farmers_market.customer
 WHERE
    customer_first_name LIKE 'Jer%'
```

Question: Find out which vendors primarily sell fresh produce and which don’t??

```
SELECT
    vendor_id,
    vendor_name,
    vendor_type,
    CASE
        WHEN LOWER(vendor_type) LIKE '%fresh%'
          THEN 'Fresh Produce'
        ELSE 'Other'
    END AS vendor_type_condensed
 FROM farmers_market.vendor
```

Question: Analyze purchases that were made at the farmer's market on days when it rained.

```
SELECT
    market_date,
    customer_id,
    vendor_id,
    quantity * cost_to_customer_per_qty price
FROM farmers_market.customer_purchases
WHERE
    market_date IN
        (
        SELECT market_date
        FROM farmers_market.market_date_info
        WHERE market_rain_flag = 1
        )
LIMIT 5
```

Question: Put the total cost to customer purchases into bins of

- under $5.00,
- $5.00–$9.99,
- $10.00–$19.99, or
- $20.00 and over.

```
SELECT
        market_date,
        customer_id,
        vendor_id,
        ROUND(quantity * cost_to_customer_per_qty, 2) AS price,
        CASE
            WHEN quantity * cost_to_customer_per_qty < 5.00
                THEN 'Under $5'
            WHEN quantity * cost_to_customer_per_qty < 10.00
                THEN '$5-$9.99'
            WHEN quantity * cost_to_customer_per_qty < 20.00
                THEN '$10-$19.99'
            WHEN quantity * cost_to_customer_per_qty >= 20.00
                THEN '$20 and Up'
            END AS price_bin
    FROM farmers_market.customer_purchases
    LIMIT 10
```