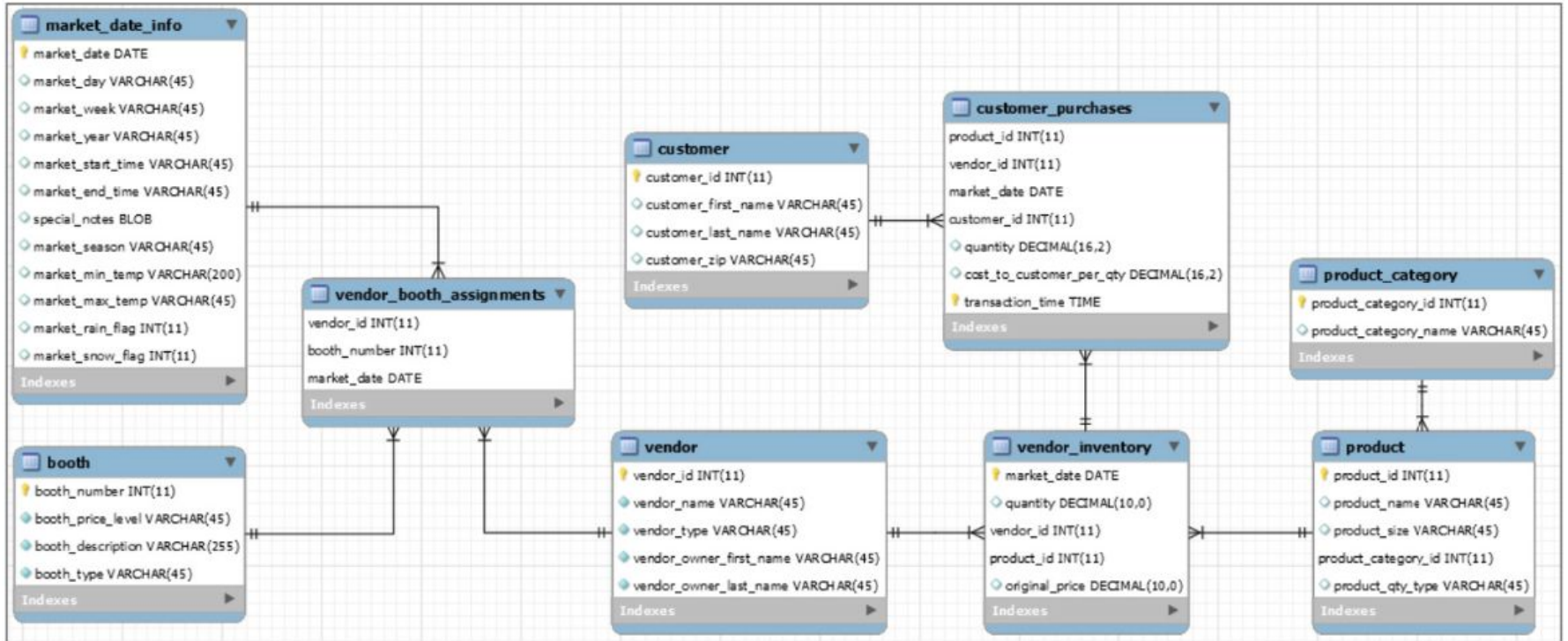# SQL-01 | Basic Keywords and Functions

Lecture Queries

Schema

Question: Get all the products available in the market.

```
SELECT * FROM farmers_market.product;
```

Question: Explore vendor_booth_assignments.

List down 10 rows of farmer's market vendor booth assignments, displaying the market date, vendor ID, and booth number from the vendor_booth_assignments table.

```sql
SELECT market_date, vendor_id, booth_number
 FROM farmers_market.vendor_booth_assignments
 LIMIT 10
```

Question: In the customer purchases, we have quantity and cost per qty separate, query the total amount that the customer has paid along with date, customer id, vendor_id, qty, cost per qty and the total amt.?

```
SELECT
    market_date,
    customer_id,
    vendor_id,
    quantity,
    cost_to_customer_per_qty,
    quantity * cost_to_customer_per_qty
FROM farmers_market.customer_purchases
LIMIT 10
```

Rounding off:

```
SELECT
    market_date,
    customer_id,
    vendor_id,
    ROUND(quantity *
cost_to_customer_per_qty, 2) AS price
 FROM
farmers_market.customer_purchases
 LIMIT 10
```

Question: We want to merge each customer's name into a single column that contains the first name, then a space, and then the last name.

```
SELECT

customer_id,

CONCAT(customer_first_name, " ", customer_last_name) AS
customer_name

FROM farmers_market.customer

LIMIT 5
```

Question: Extract all the product names that are part of product category 1

SELECT

product_id, product_name, product_category_id

FROM farmers_market.product

WHERE product_category_id = 1

LIMIT 5

Question: Print a report of everything ***customer_id 4*** has ever purchased at the farmer's market, sorted by market date, vendor ID, and product ID.

```
SELECT
        market_date, customer_id,
        vendor_id, product_id,
        quantity,
        quantity * cost_to_customer_per_qty AS
price
 FROM farmers_market.customer_purchases
 WHERE customer_id = 4
 ORDER BY market_date, vendor_id, product_id
```

Question: Get all the product info for products with id between 3 and 8 (not inclusive) and product with id 10.

```sql
SELECT
    product_id,
    product_name
 FROM farmers_market.product
 WHERE
    product_id = 10
    OR (product_id > 3
    AND product_id < 8)
```

Question: Details of all the purchases made by customer_id 4 at vendor_id 7, along with the total_amt.

```
SELECT
    market_date,
    customer_id,
    vendor_id,
    quantity * cost_to_customer_per_qty AS price
FROM farmers_market.customer_purchases
WHERE
    customer_id = 4
    AND vendor_id = 7
```

Question: Find the customer detail with the first name of "Carlos" or the last name of "Diaz".

```sql
SELECT
    customer_id,
    customer_first_name,
    customer_last_name
 FROM farmers_market.customer
 WHERE
    customer_first_name = 'Carlos'
    OR customer_last_name = 'Diaz'
```

Question: If you wanted to find out what booths vendor 2 was assigned to, on or before (less than or equal to) April 20, 2019.

```
SELECT *
  FROM vendor_booth_assignments
  WHERE vendor_id = 3 AND market_date <= "2019-04-20"
  ORDER BY market_date
```