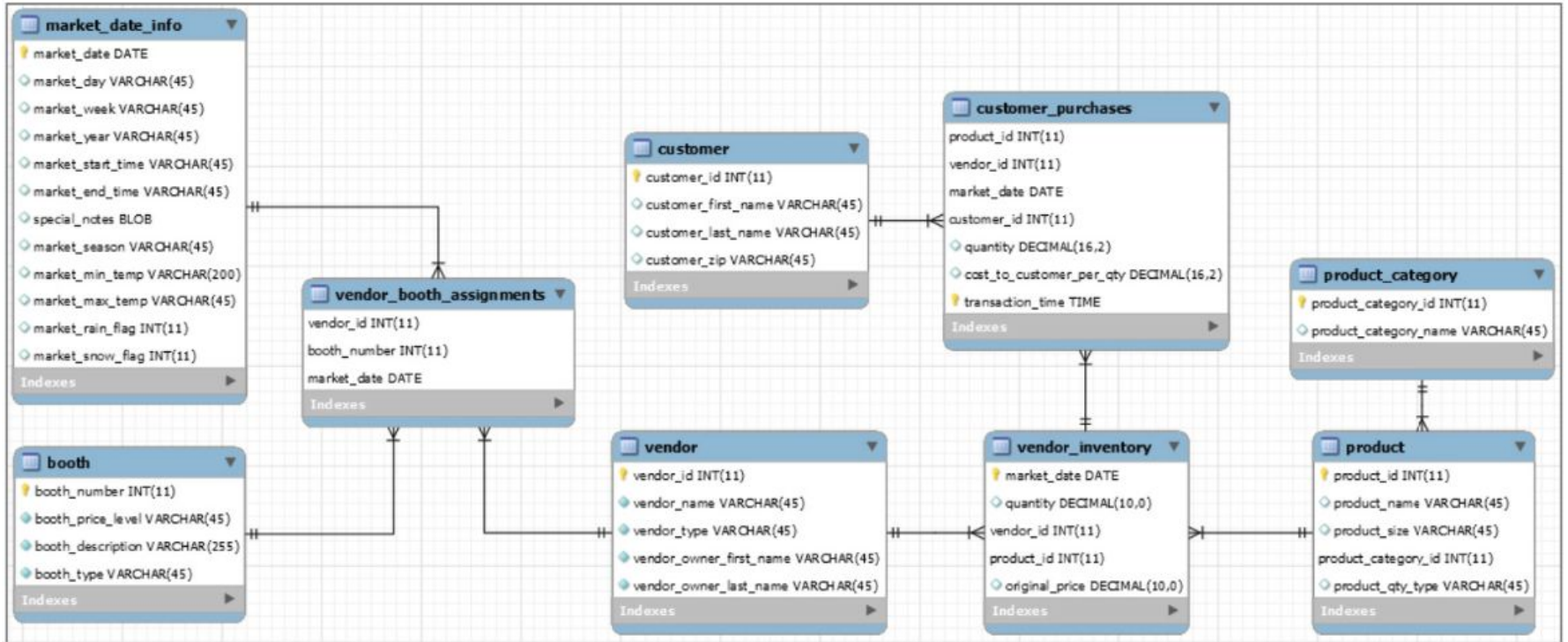


SQL-01 | Basic Keywords and Functions

Lecture Queries

Schema



Question: Get all the products available in the market.

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.

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.

```
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.?

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.

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

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.

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.

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

```
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.

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”.

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

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

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.

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_assignme  
nts  
  
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].

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.”

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

```
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'
```

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

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

Question: Analyze purchases 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: Find out which vendors primarily sell fresh produce and which don't.

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: 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

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
```