SQL-02 | Filtering and Subqueries

Lecture Queries

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.

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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) or of 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.

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

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.

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```
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].

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```
SELECT
   customer id,
   customer first name,
   customer last name
 FROM farmers market.customer
WHERE
   customer last name = 'Diaz'
                               OR customer last name =
            OR customer last name = 'Wilson'
'Edwards'
```

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: 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."

Find all the products which have no sizes recorded against them.

Find all the products which have no sizes recorded against them.

SELECT*

FROM farmers_market.product

WHERE product_size IS NULL

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: List down all the Product details where product_category contains 'Fresh'.

Question: List down all the Product details where product_category contains 'Fresh'.

```
select * from product
where product_category_id in
    (select product_category_id
    from product_category
    where product_category_name like '%fresh%');
```

Question: Find out which vendors primarily sell fresh produce.

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

```
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.

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```
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
```