SECTION 1: Most popular combinations (SQL)

SECTION 2: Defining and analyzing KPIs using dashboards (Power BI)

SECTION 1:

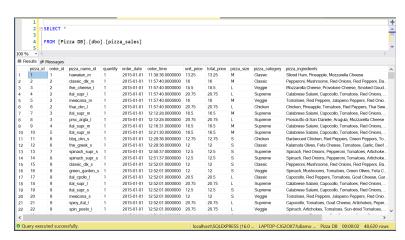
The goal of this section is to find the 3 most popular combinations of different items that customers buy in order to advertise new Medium sized combo deals that will yield higher revenue for the upcoming quarters..

The data was downloaded from this folder:

https://drive.google.com/drive/folders/17U0ah6Q4MJM wIn XI4fHc-1fO6Q4s6z.

- 1. Import the transaction record into SSMS.
 - a. SELECT * FROM [Pizza DB].[dbo].[pizza_sales]

b.



2. We will now count the amount of time customers order different combinations of pizzas. From this result, we will make combo deals for "The Hawaiian Pizza & The Thai Chicken Pizza", "The Barbecue Chicken Pizza & The Pepperoni Pizza", and "The Pepperoni Pizza & The Thai Chicken Pizza".

a.

C.

SELECT TOP(3) a.pizza_name, b.pizza_name, COUNT(*) CombinationCount FROM [Pizza DB].[dbo].[pizza_sales] a INNER JOIN [Pizza DB].[dbo].[pizza_sales] b ON a.order_id = b.order_id AND a.pizza_name < b.pizza_name GROUP BY a.pizza_name, b.pizza_name ORDER BY CombinationCount DESC

		pizza_name	pizza_name	CombinationCount
	1	The Hawaiian Pizza	The Thai Chicken Pizza	319
	2	The Barbecue Chicken Pizza	The Pepperoni Pizza	308
h	3	The Hawaiian Pizza	The Pepperoni Pizza	299

3. Now, firstly, we will create a table and add the names for the 3 combos.

a.

```
CREATE TABLE combo (
"Combo Names" VARCHAR(40)
)
```



b.

C.

INSERT INTO dbo.combo
VALUES ('The Hawaiian & Thai Chicken Pizza Combo'),
('The Barbecue Chicken & Pepperoni Pizza Combo'),
('The Pepperoni & Thai Chicken Pizza Combo')



d.

4. In addition, the combo deals will receive a 20% discount from the total if they were to be purchased individually. Let's find the original prices for those medium-sized pizzas.

a.

```
SELECT DISTINCT pizza_name_id, unit_price FROM [Pizza DB].[dbo].[pizza_sales]
```

```
WHERE pizza_name IN ('The Hawaiian Pizza', 'The Thai Chicken Pizza', 'The Barbecue Chicken Pizza', 'The Pepperoni Pizza')
AND RIGHT(pizza_name_id,2) = '_m'
ORDER BY pizza_name_id
```

	pizza_name_id	unit_price
1	bbq_ckn_m	16.75
2	hawaiian_m	13.25
3	pepperoni_m	12.5
4	thai_ckn_m	16.75

5. We will now sum up the prices for the items individually and apply the 20% discount to the newly created combos. Here, we used the CTE from the previous step in order to get the unit price for each pizza.

a.

b.

```
WITH price AS
      SELECT DISTINCT pizza_name_id, unit_price
      FROM [Pizza DB].[dbo].[pizza sales]
      WHERE pizza_name IN ('The Hawaiian Pizza', 'The Thai Chicken
Pizza'
      , 'The Barbecue Chicken Pizza', 'The Pepperoni Pizza')
      AND RIGHT(pizza name id,2) = ' m'
     combi_price AS
             SELECT SUM(unit_price) * 0.80 combo_price
             FROM price WHERE pizza name id IN ('hawaiian m',
'thai ckn m')
      UNION ALL
             SELECT SUM(unit price) * 0.80
             FROM price WHERE pizza_name_id IN ('bbq_ckn_m',
'pepperoni_m')
      UNION ALL
             SELECT SUM(unit price) * 0.80
             FROM price WHERE pizza name id IN ('pepperoni m',
'thai_ckn_m')
SELECT * FROM combi price
```

