

Order NO	→ Order Date	ս Month/Yr	▼ Day of Week	→ Pie Flavor	Quantity	→ Cost		Pie 🔽 Pre-Order/In-Store Pu	rchase 🗸 Organic? 🗸
	12520	6/11/2019	6/1/2019 Tuesday	Apple		4	10 Slice	In-Store	Yes
	12521	6/11/2019	6/1/2019 Tuesday	Apple		4	10 Slice	Pre-Order	Yes
	12522	6/11/2019	6/1/2019 Tuesday	Apple		3	7.5 Slice	In-Store	Yes
	12523	6/11/2019	6/1/2019 Tuesday	Apple		4	80 Whole	In-Store	Yes
	12070	6/14/2019	6/1/2019 Friday	Apple		5	12.5 Slice	Pre-Order	Yes
	12071	6/14/2019	6/1/2019 Friday	Apple		3	7.5 Slice	In-Store	Yes
	12072	6/14/2019	6/1/2019 Friday	Apple		1	20 Whole	Pre-Order	Yes
	12073	6/14/2019	6/1/2019 Friday	Apple		5	12.5 Slice	In-Store	Yes
	11793	6/15/2019	6/1/2019 Saturday	Apple		1	20 Whole	Pre-Order	Yes
	11794	6/15/2019	6/1/2019 Saturday	Apple		1	2.5 Slice	In-Store	Yes
	11065	7/4/2019	7/1/2019 Thursday	Cherry		5	100 Whole	Pre-Order	Yes
	11066	7/4/2019	7/1/2019 Thursday	Cherry		5	100 Whole	In-Store	No
	11067	7/4/2019	7/1/2019 Thursday	Cherry		3	7.5 Slice	Pre-Order	Yes
	11068	7/4/2019	7/1/2019 Thursday	Strawberry Rhubarb		4	10 Slice	Pre-Order	No
	11069	7/4/2019	7/1/2019 Thursday	Cherry		4	80 Whole	In-Store	Yes
	11070	7/4/2019	7/1/2019 Thursday	Strawberry Rhubarb		1	20 Whole	In-Store	No
	11071	7/4/2019	7/1/2019 Thursday	Cherry		3	7.5 Slice	Pre-Order	No
	11072	7/4/2019	7/1/2019 Thursday	Cherry		5	12.5 Slice	In-Store	Yes
	11073	7/4/2019	7/1/2019 Thursday	Apple		1	2.5 Slice	In-Store	No
	11074	7/4/2019	7/1/2019 Thursday	Cherry		4	80 Whole	Pre-Order	No
	11075	7/4/2019	7/1/2019 Thursday	Strawberry Rhubarb		3	60 Whole	In-Store	Yes
	11076	7/4/2019	7/1/2019 Thursday	Apple		2	5 Slice	In-Store	No
	11077	7/4/2019	7/1/2019 Thursday	Apple		1	20 Whole	Pre-Order	No
	11078	7/4/2019	7/1/2019 Thursday	Apple		2	40 Whole	In-Store	Yes
	11079	7/4/2019	7/1/2019 Thursday	Apple		1	2.5 Slice	Pre-Order	Yes

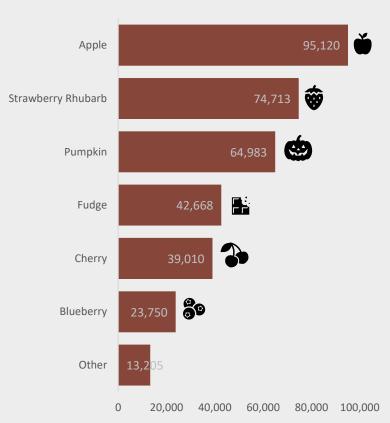
The data:

- Starts from June 2019 to November 2021.
- The bakery has 7 pie flavors.
- The quantity of the pie ranges from 1 to 5.
- The cost of the pie ranges from 2\$ up to 100\$.
- There are two options of the pie slice or whole.
- The purchase is done by two ways make in store or pre-ordered.
- There are two types of ingredients Organic or not.



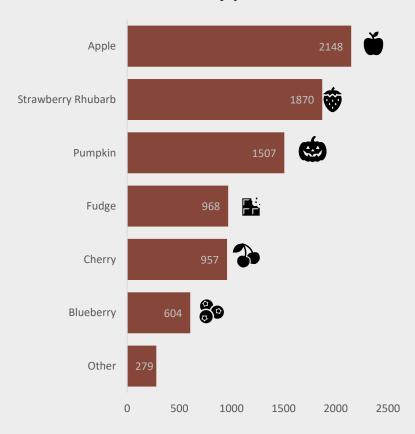
Pie Flavor Analysis

Revenue earned per Flavor



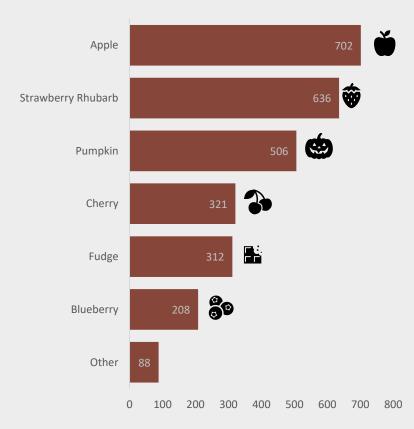
Apple and Strawberry produce the most revenue while blueberry produces the least.

Total Quantity per Flavor



Apple and Strawberry are ordered more in quantity.

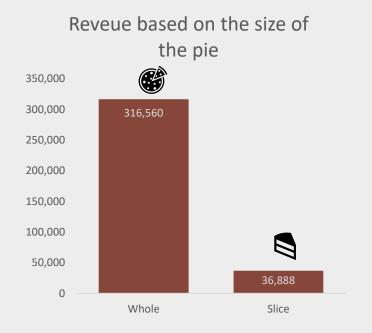
Total No of Orders per Flavor

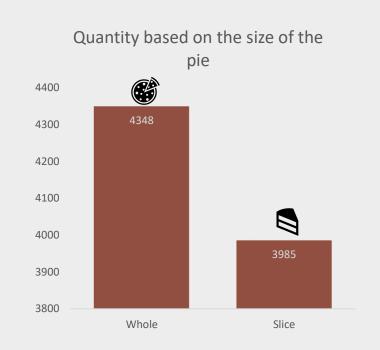


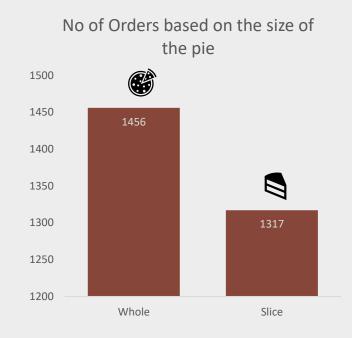
Apple is the highest number of orders while blueberry is ordered less.



Size of the pie Analysis







Whole 20

59.7

100

Min Cost

Avg Cost

Max Cost

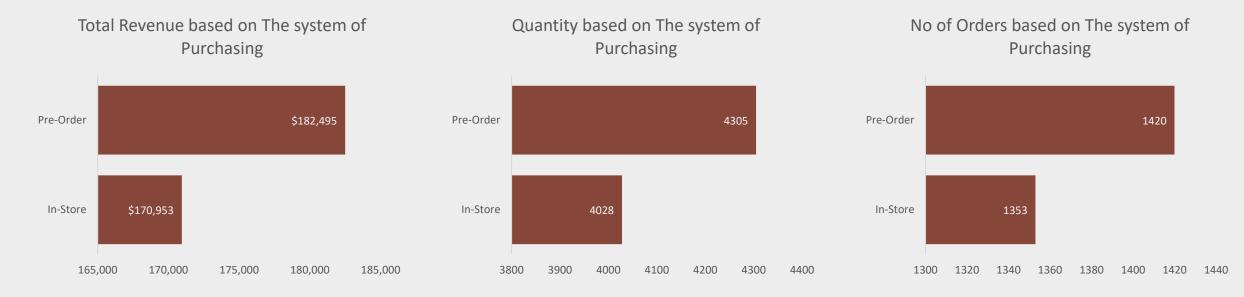
2.5 7.6

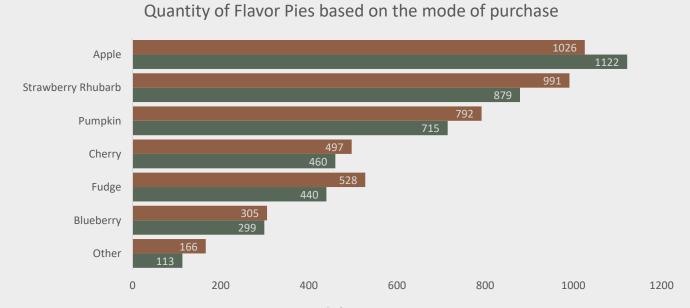
12.5

- Whole pies generate revenue more than slice pies.
- Whole pies are more in quantity and No of orders.
- The whole pie has 8 slices, The cost of the slice is the same alone or in a whole pie, so there is no difference in buying a whole pie or just a slice.



A purchasing System Analysis



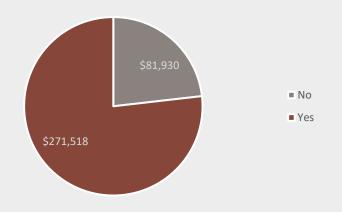


- Pre-Order system produce more revenue, quantity and No of Orders.
- Based on the analysis I did Apple flavor is more In-Store orders while the other Flavors are more in Pre-Order system.

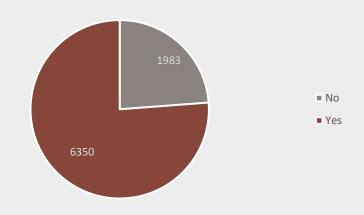


Ingredient Analysis

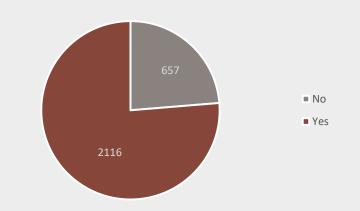
Total Revenue based on Organic or not



Quantity based on Organic or not



No of Orders based on Organic or not

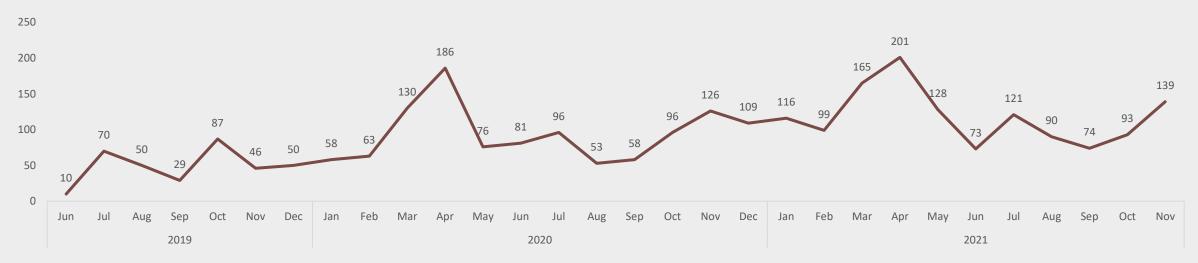


- Organic pies produce revenue threefold the pies that don't have Organic ingredients.
- Customers order the organic pies more, so the quantity and No of orders are so high compared to nonorganic pies.

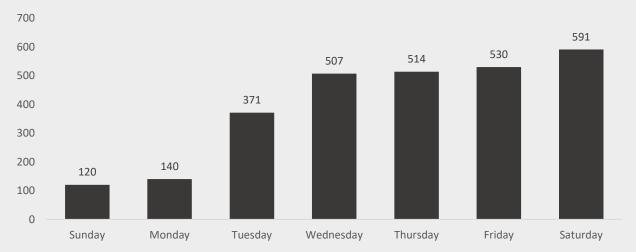


Sales Analysis Over The past 3 Years





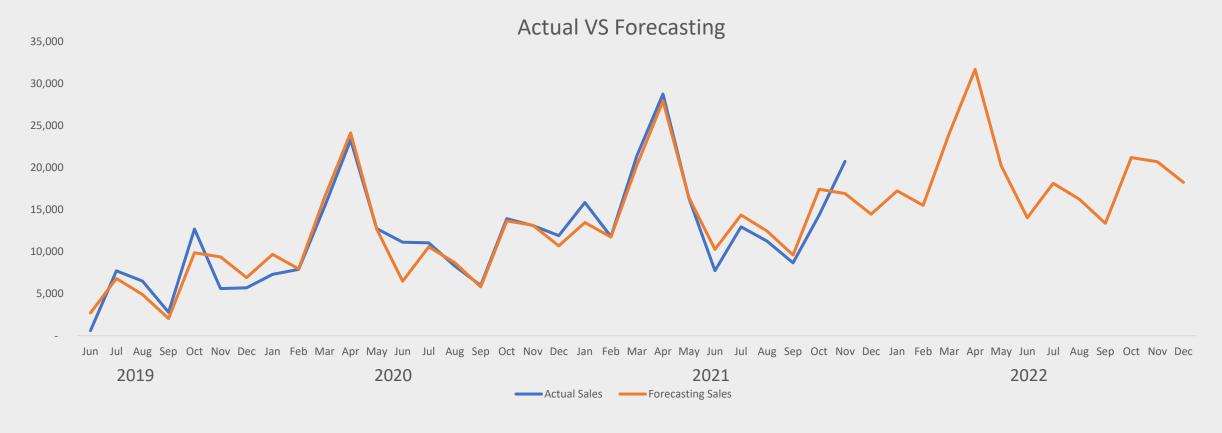
No. of Orders based on The Day of Week



- Sales had increased more in April and November, respectively, The increase had happened because the occasions in these months.
- Sales had increased more in the workdays more than the weekend.



Sales Forecasting Using Regression



- Here I made Forecasting from Dec 2021 To Dec 2022.
- The same trending that happened in Apr the last year will happen in this year too.