

## Case Study Part 2

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DSC 550

### CSP 2

#### Description:

A synthetic dataset that describes pizza sales for a pizza place somewhere in the US. While the contents are artificial, the ingredients used to make the pizzas are far from it. There are 32 different pizzas that fall into 4 different categories: *classic* (classic pizzas: 'You probably had one like it before, but never like this!'), *chicken* (pizzas with chicken as a major ingredient: 'Try the Southwest Chicken Pizza! You'll love it!'), *supreme* (pizzas that try a little harder: 'My Soppressata pizza uses only the finest salami from my personal salumist!'), and *veggie* (pizzas without any meats whatsoever: 'My Five Cheese pizza has so many cheeses, I can only offer it in Large Size!').

#### Usage:

pizzaplace

#### Format:

A tibble with 49546 rows and 5 variables:

time

A character representation of the **order** time, expressed as a 24-hour time the ISO 8601 extended time format (hh:mm:ss)

name

The short name for the pizza

size

The size of the pizza, which can either be **S**, **M**, **L**, **XL** (rare!), or **XXL** (even rarer!); most pizzas are available in the **S**, **M**, and **L** sizes but exceptions apply

type

The category or type of pizza, which can either be **classic**, **chicken**, **supreme**, or **veggie**

price

The price of the pizza and the amount that it sold for (in USD)

EDA:

I dropped the unnamed, **id**, and **date** columns because they were irrelevant from the year of 2015. I also removed the rows of prices that ranged from \$35 or greater because they were outliers.

Statistical questions:

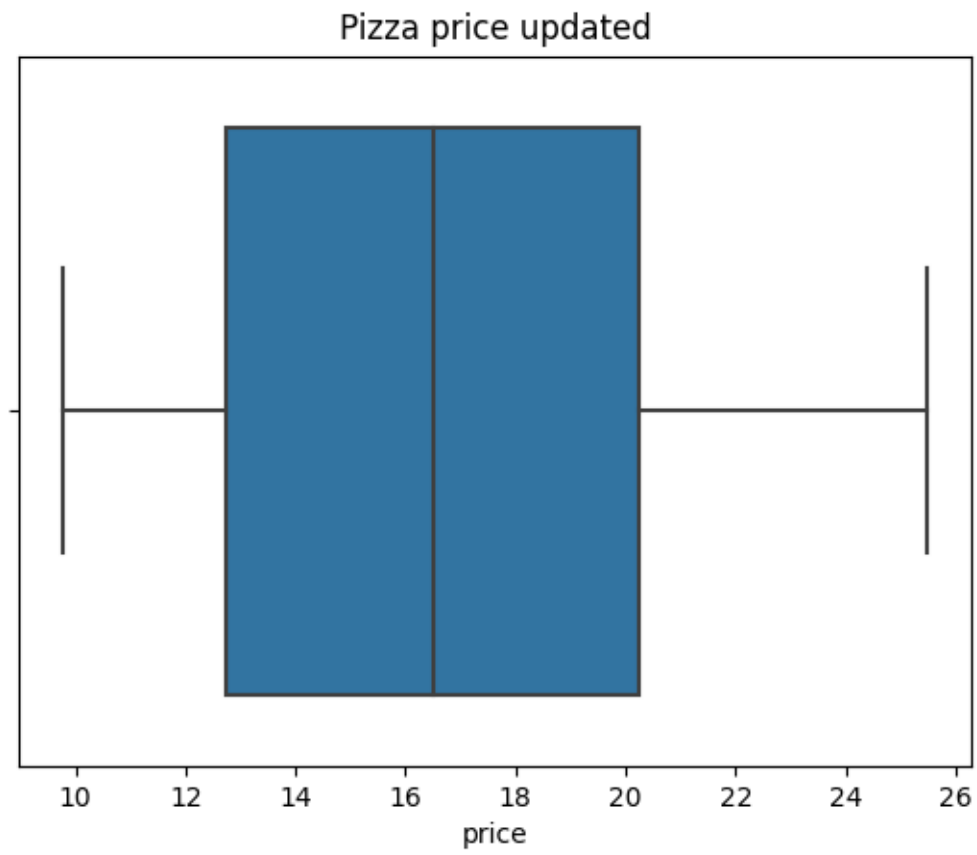
- 1) Is there a relationship between the size of a pizza versus the type of pizza purchased?
- 2) Is there a relationship between the name of a pizza versus the price of pizza purchased?

Hypotheses:

1. There will be more large classic pizzas purchased.
2. There will be more classic dlx pizzas purchased at \$12 or \$16.

#### Updated Pizza Place Data

	time	name	size	type	price
0	11:38:36	hawaiian	M	classic	13.25
1	11:57:40	classic_dlx	M	classic	16.00
2	11:57:40	mexicana	M	veggie	16.00
3	11:57:40	thai_ckn	L	chicken	20.75
4	11:57:40	five_cheese	L	veggie	18.50



[R: A year of pizza sales from a pizza place \(vincentarelbundock.github.io\)](https://vincentarelbundock.github.io/R/)