

# Eileen's Coffeeshop



## Project Best Buds



# The Data Set

	Strain	Type	Rating	Effects	Flavor	Description
0	100-Og	hybrid	4.0	Creative,Energetic,Tingly,Euphoric,Relaxed	Earthy,Sweet,Citrus	\$100 OG is a 50/50 hybrid strain that packs a ...
1	98-White-Widow	hybrid	4.7	Relaxed,Aroused,Creative,Happy,Energetic	Flowery,Violet,Diesel	The '98 Aloha White Widow is an especially pot...
2	1024	sativa	4.4	Uplifted,Happy,Relaxed,Energetic,Creative	Spicy/Herbal,Sage,Woody	1024 is a sativa-dominant hybrid bred in Spain...
3	13-Dawgs	hybrid	4.2	Tingly,Creative,Hungry,Relaxed,Uplifted	Apricot,Citrus,Grapefruit	13 Dawgs is a hybrid of G13 and Chemdawg genet...
4	24K-Gold	hybrid	4.6	Happy,Relaxed,Euphoric,Uplifted,Talkative	Citrus,Earthy,Orange	Also known as Kosher Tangie, 24k Gold is a 60%...

2351 rows x 6 columns

- Strain: object
- Type : object
- Rating: float64
- Effects: object
- Flavor: object
- Description: object

# Hypothesis

I want to offer the **perfect range** of cannabis strains in my coffeeshop

1. 6 Stains of each type (sativa, indica & hybrid)
2. high ranking
3. maximum variety in effects and flavors

## Bonus:

- Prices
- 1 'Cali' strain per Type



# Cleaning (round 1)

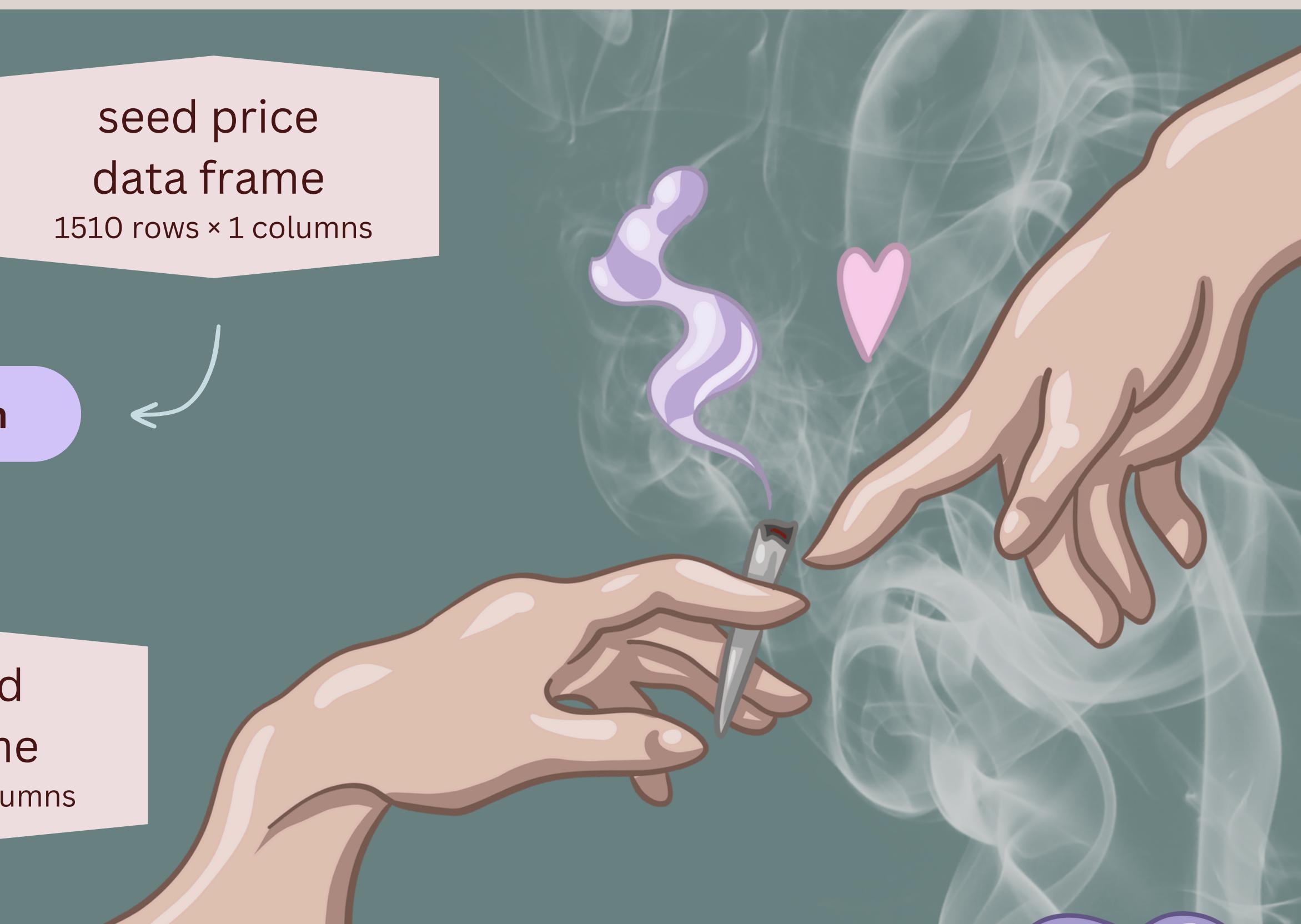
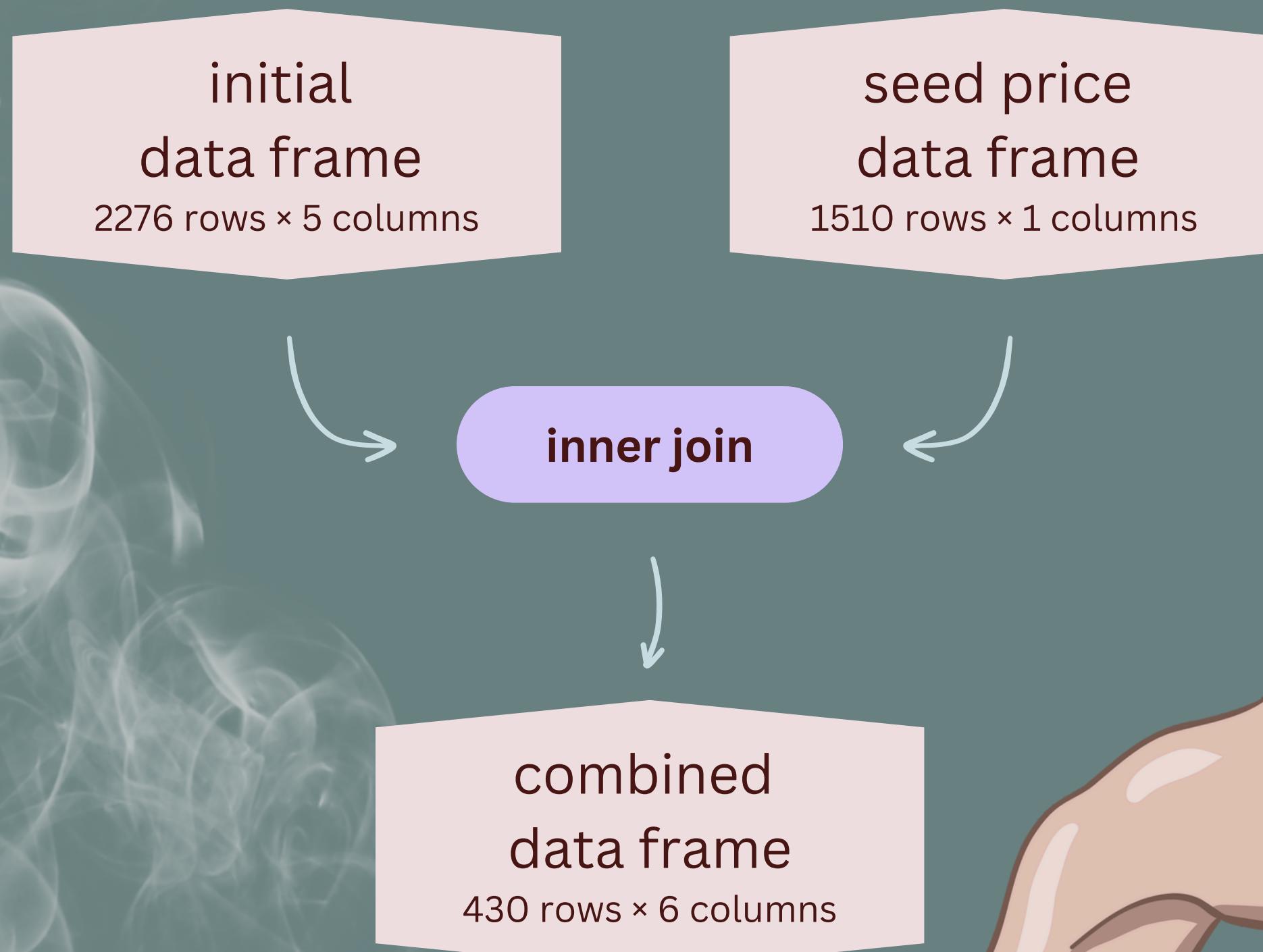
## Initial Data:

1. column names & removed duplicates
2. dropped null values (Rating, Flavor, Effect, Description)
3. cleaned “name” column (.lower)
4. set **name as index**

## Scraped Data (Seed Retailer Website):

1. column names & removed duplicates
2. cleaned name column
  - Amnesia Haze (Royal Queen Seeds) feminized -> amnesia-haze
3. set **name as index**

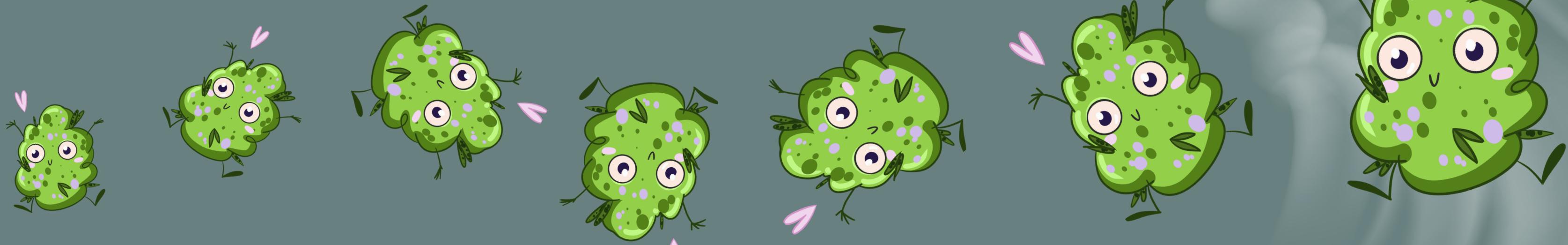
# Combining the Data Frames



# Cleaning (round 2)

1. Dropped duplicate indices ( due to various prices for the same strain )
  - added a step before joining (grouping by name and return median )
2. Encoded flavour
3. Encoded effects
4. Identifying “Cali” strains from description

final  
data frame  
307 rows × 65 columns

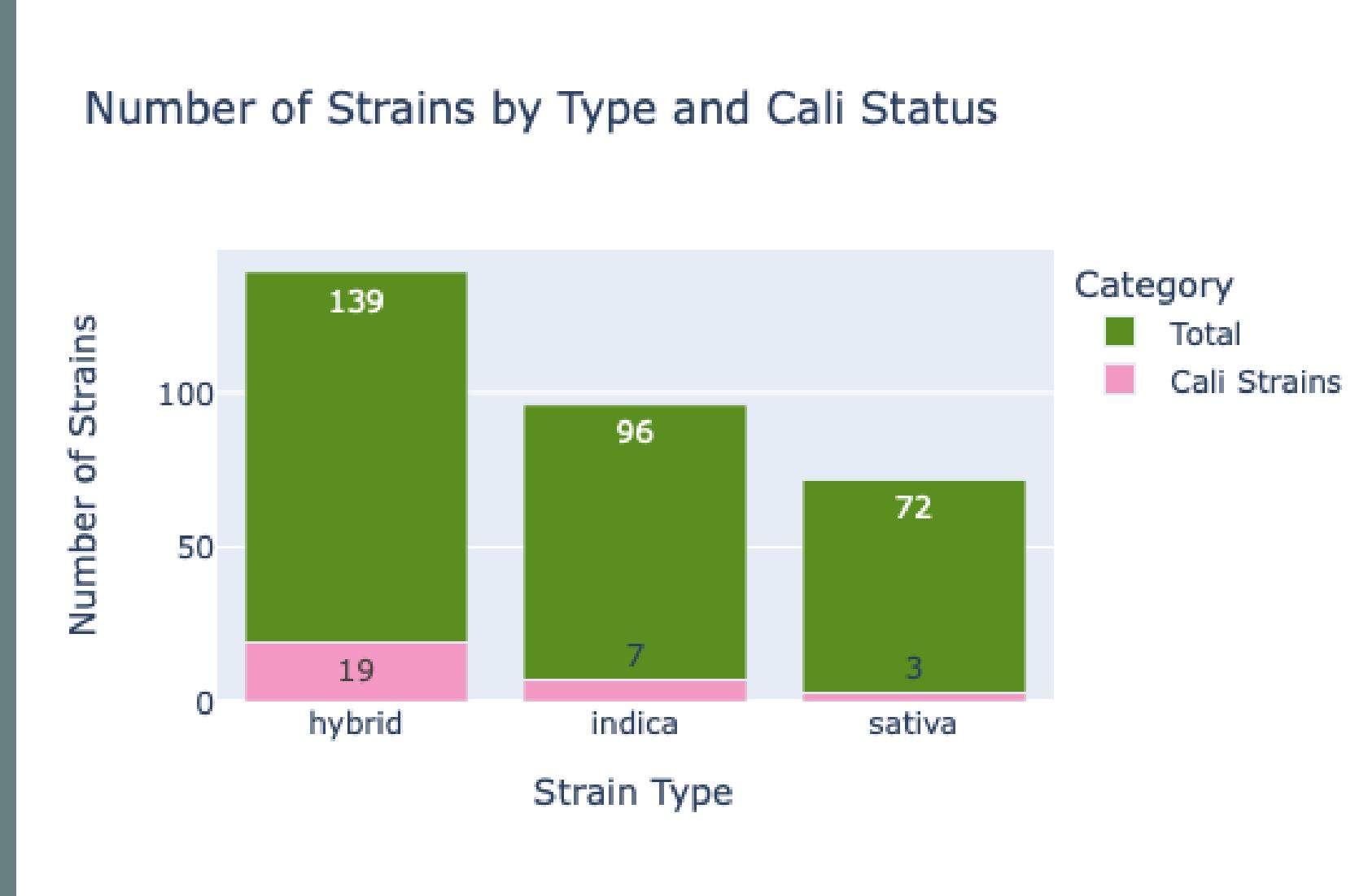
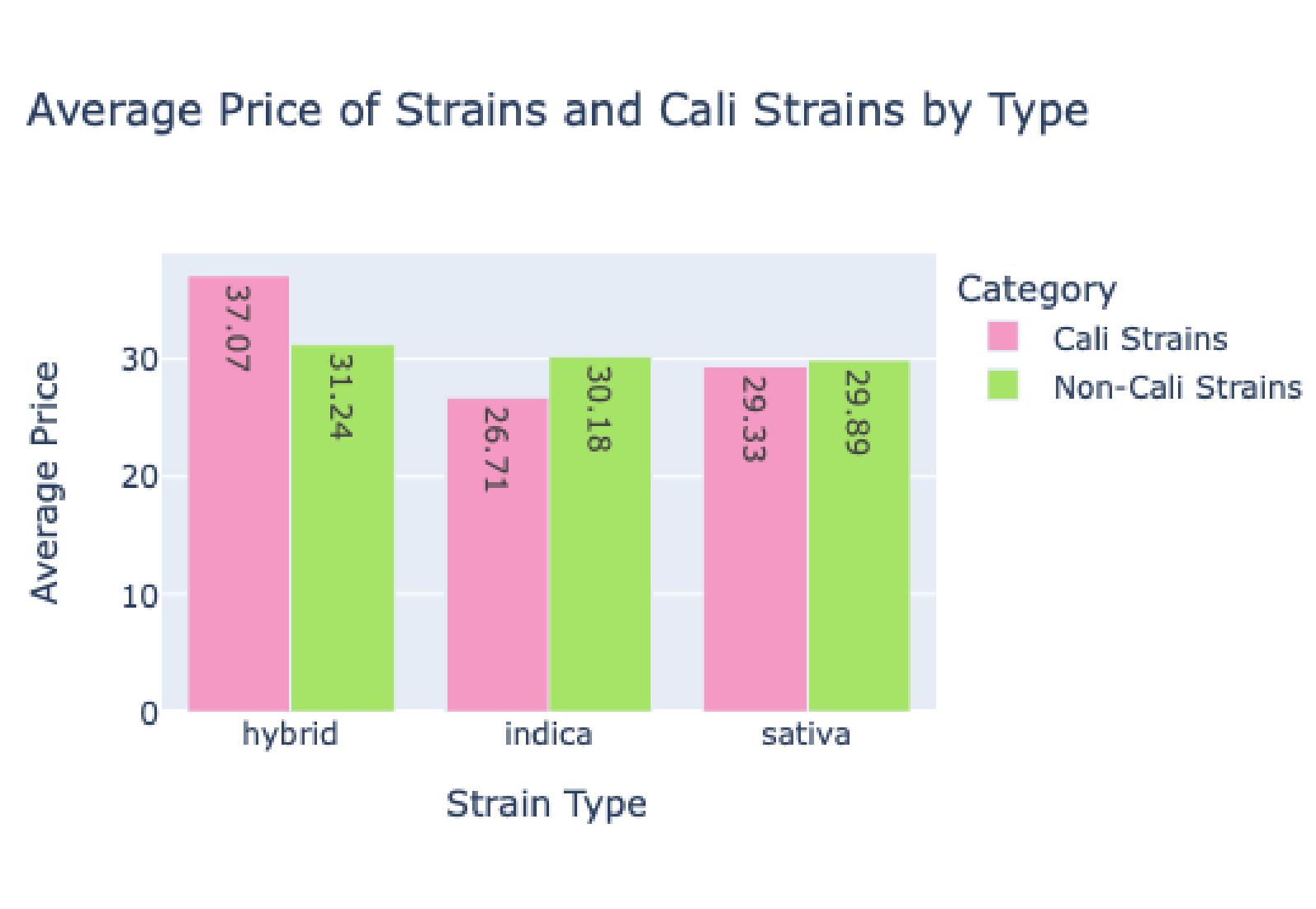


# Exploratory Data Analysis

Average Rating of Strains, Cali Strains, and Non-Cali Strains by Type



# Exploratory Data Analysis





# Chosing Strains

## Sativa

1 Cali Strain

5 Non Cali Strains

## Indica

1 Cali Strain

5 Non Cali Strains

## Hybrid

1 Cali Strain

5 Non Cali Strains

**Feature Hierarchy:**

1. Rating
2. Effects variaty
3. Flavour variaty



# Chosing Strains

## Sativa

**Highest rated Cali Strain**  
5.0

5 Non Cali Strains

## Indica

**Highest rated Cali Strain**  
5.0

5 Non Cali Strains

## Hybrid

**Highest rated Cali Strain**  
4.9

5 Non Cali Strains

**Feature Hierarchy:**

1. Rating
2. Effects variaty
3. Flavour variaty



# Chosing Strains

## Sativa

**Highest rated Cali Strain**  
5.0

**Top 4 Highest rated Non-Cali**  
5.0, 5.0, 5.0, 4.9

**2 Strains that are both rated**  
4.8

## Indica

**Highest rated Cali Strain**  
5.0

**5 Non Cali Strains**

## Hybrid

**Highest rated Cali Strain**  
4.9

**5 Non Cali Strains**

**Feature Hierarchy:**

1. Rating
2. Effects variaty
3. Flavour variaty



# Chosing Strains

**Feature Hierarchy:**

1. Rating
2. Effects variety
3. Flavour variety

## Sativa

**Highest rated Cali Strain**  
5.0

**Top 4 Highest rated Non-Cali**  
5.0, 5.0, 5.0, 4.9

**Neither added effect variety**

## Indica

**Highest rated Cali Strain**  
5.0

**5 Non Cali Strains**

## Hybrid

**Highest rated Cali Strain**  
4.9

**5 Non Cali Strains**



# Chosing Strains

## Sativa

Highest rated Cali Strain  
5.0

Top 4 Highest rated Non-Cali  
5.0, 5.0, 5.0, 4.9

Chose the 1 that added  
flavors variaty

## Indica

Highest rated Cali Strain  
5.0

5 Non Cali Strains

## Hybrid

Highest rated Cali Strain  
4.9

5 Non Cali Strains

**Feature Hierarchy:**

1. Rating
2. Effects variaty
3. Flavour variaty



# Chosing Strains

## Sativa

**Highest rated Cali Strain**  
5.0

**Top 4 Highest rated Non-Cali**  
5.0, 5.0, 5.0, 4.9

**Chose the 1 that added  
flavors variaty**

## Indica

**Highest rated Cali Strain**  
5.0

**Top 6 Highest rated Non-Cali**  
are all rated 5.0

## Hybrid

**Highest rated Cali Strain**  
4.9

**5 Non Cali Strains**

**Feature Hierarchy:**

1. Rating
2. Effects variaty
3. Flavour variaty



# Chosing Strains

## Sativa

Highest rated Cali Strain  
5.0

Top 4 Highest rated Non-Cali  
5.0, 5.0, 5.0, 4.9

Chose the 1 that added  
flavors variaty

## Indica

Highest rated Cali Strain  
5.0

Chose 2 of them added  
effects variaty

4 of them didn't add effects  
variaty

## Hybrid

Highest rated Cali Strain  
4.9

5 Non Cali Strains

**Feature Hierarchy:**

1. Rating
2. Effects variaty
3. Flavour variaty



# Chosing Strains

## Sativa

Highest rated Cali Strain  
5.0

Top 4 Highest raked Non-Cali  
5.0, 5.0, 5.0, 4.9

Chose the 1 that added  
flavors variaty

## Indica

Highest rated Cali Strain  
5.0

Chose 2 of them added  
effects variaty

Chose 3 of them that added  
flavors variaty

## Hybrid

Highest rated Cali Strain  
4.9

5 Non Cali Strains

**Feature Hierarchy:**

- Rating
- Effects variaty
- Flavour variaty



# Chosing Strains

## Sativa

Highest rated Cali Strain  
5.0

Top 4 Highest rated Non-Cali  
5.0, 5.0, 5.0, 4.9

Chose the 1 that added  
flavors variaty

## Indica

Highest rated Cali Strain  
5.0

Chose 2 of them added  
effects variaty

Chose 3 of them that added  
flavors variaty

## Hybrid

Highest rated Cali Strain  
4.9

Top 3 Highest rated Non-Cali  
5.0, 4.9, 4.9

5 Non Cali Strain were rated  
4.8

**Feature Hierarchy:**

- 1. Rating
- 2. Effects variaty
- 3. Flavour variaty



# Chosing Strains

## Sativa

Highest rated Cali St Cali  
5.0

Top 4 Highest rated Non-Cali  
5.0, 5.0, 5.0, 4.9

Chose the 1 that added  
flavors variaty

## Indica

Highest rated Cali St Cali  
5.0

Chose 2 of them added  
effects variaty

Chose 3 of them that added  
flavors variaty

## Hybrid

Highest rated Strainrain  
4.9

Top 3 Highest rated Non-Cali  
5.0, 4.9, 4.9

Chose 2 of them that added  
flavors variaty

**Feature Hierarchy:**

- Rating
- Effects variaty
- Flavour variaty

# Menu



## Sativa

	rating	effects	flavors
acid-dough	5.0	Talkative, Giggly, Happy, Hungry, Relaxed	Earthy, Woody, Tree Fruit
amnesia-ganja-haze	5.0	Euphoric, Relaxed	Spicy/Herbal, Sweet
congo	5.0	Uplifted, Energetic, Euphoric, Happy, Talkative	Ammonia, Diesel, Sweet
thunder-struck	4.9	Relaxed, Uplifted, Creative, Focused, Talkative	Sweet, Earthy, Tropical
shining-silver-haze	4.8	Talkative, Uplifted, Relaxed, Euphoric, Hungry	Tropical, Mango, Pine

## Indica

	rating	effects	flavors
hammerhead	5.0	Sleepy, Aroused, Tingly, Relaxed, Uplifted	Diesel, Berry, Earthy
washing-machine	5.0	Creative, Relaxed, Sleepy, Talkative, Tingly	Earthy, Pungent, Cheese
lucid-bolt	5.0	Giggly, Hungry, Relaxed, Sleepy, Talkative	Blueberry, Berry, Earthy
anubis	5.0	Relaxed, Sleepy, Creative, Focused, Aroused	Grape, Lime, Earthy
fallen-angel	5.0	Hungry, Relaxed, Sleepy, Uplifted, Euphoric	Earthy, Sage, Sweet

## Hybrid

	rating	effects	flavors
remo-chemo	5.0	Talkative, Uplifted, Creative, Euphoric, Giggly	Spicy/Herbal, Pepper, Pungent
brooklyn-mango	4.9	Euphoric, Aroused, Uplifted, Happy, Talkative	Mango, Tropical, Citrus
larry-bird-kush	4.9	Relaxed, Euphoric, Energetic, Happy, Uplifted	Sweet, Orange, Earthy
opium	4.8	Happy, Relaxed, Euphoric, Uplifted, Giggly	Earthy, Citrus, Flowery
royal-highness	4.8	Happy, Relaxed, Energetic, Uplifted, Focused	Flowery, Earthy, Cheese

Cali:

	rating	effects
golden-tiger	5.0	Talkative, Uplifted, Energetic, Euphoric, Happy

Cali:

	rating	effects
california-hash-plant	5.0	Uplifted, Creative, Energetic, Giggly, Happy

Cali:

	rating	effects
orange-hill-special	4.9	Happy, Relaxed, Sleepy, Euphoric, Focused

# Major Obstacle



## Adding Prices to the data frame

- Understanding the Website's Code
- Joining the Data Frames
- Cleaning the names
- Dealing with Strains that had multiple Prices

# What would I have done if this was a real business case?

1. Research on customer preference (what's most important to them)
2. Scrape more Retailer Websites
3. For Hybrid strains search for composition in description
4. Negatives effects
5. THC and CBD
6. Competitor Research
7. Price/g (research the cost of growing etc. )





Puff, Puff,  
Pass...