





# IRONHACK SURF SCHOOL

A SQL PROJECT

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- CONTEXT 
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- ANALYSIS 
- CONCLUSIONS 



# CONTEXT

## 1st Idea:

- Create a database with World Surf League (WSL) competitors information

## Cons:

- Few rows
- Would take too much time - seeding the database

## 2nd Idea:

- Provide insights for a surf school managed by Ironhack

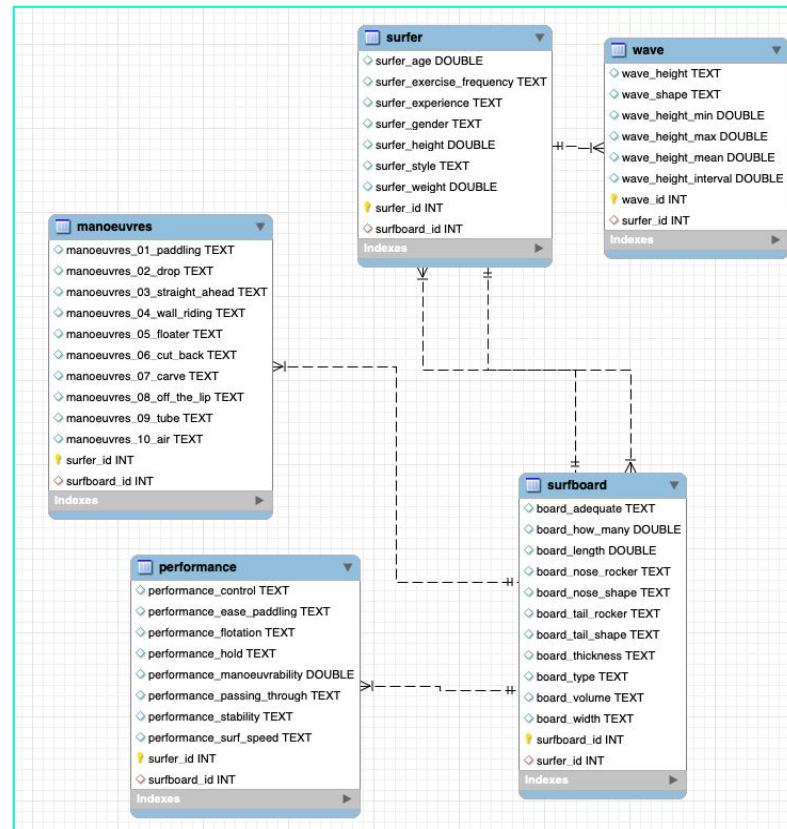
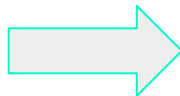
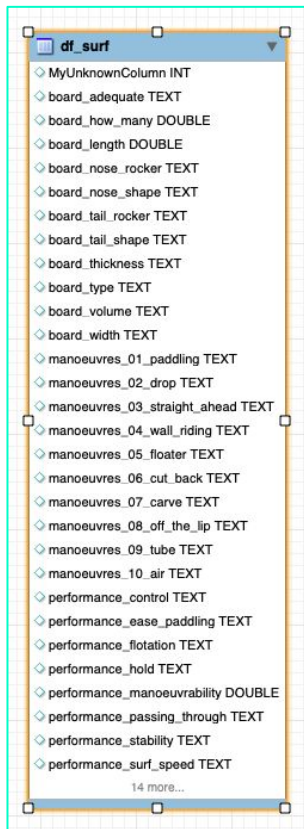
## How:

- Use a kaggle dataset - [surfing dataset](#)
  - Brazilian dataset based on online forms answered by surfers

## Goal:

- Define the best board type according different parameters

# ERD DIAGRAM



# ANALYSIS

## 1st Analysis:

- To count the different surfboard type that surfers have
- Understand the surfers experience

	board_type	COUNT(board_type)
▶	Shortboard	82
	All-around	42
	Funboard	8
	Groveler	7
	Fish	7
	Semi-gun	1

	surfer_experience	COUNT(surfer_experience)
▶	Advanced	73
	First-timer	2
	Intermediate	60
	Beginner	9
	Pro	3



## 2nd Analysis:

- To count the different surfboard type the dataset has based on surfers experience

	board_type	surfer_experience	COUNT(board_type)
▶	Shortboard	Advanced	50
	All-around	Advanced	14
	Fish	Advanced	3
	Groveler	Advanced	5
	Funboard	Advanced	1
	Funboard	Beginner	4
	All-around	Beginner	2
	Semi-gun	Beginner	1
	Fish	Beginner	1
	Shortboard	Beginner	1
	All-around	First-timer	1
	Funboard	First-timer	1
	All-around	Intermediate	25
	Shortboard	Intermediate	28
	Groveler	Intermediate	2
	Funboard	Intermediate	2
	Fish	Intermediate	3
	Shortboard	Pro	3



### 3rd Analysis:

- Understand which type of surfboard allows to do a certain maneuver:
  - For this case maneuver chosen was straight\_ahead and the occurrence of it was always

Also made this analysis but selecting surfer experience

	board_type	manoeuvres_03_straight_ahead	COUNT(board_type)	
▶	Shortboard	Always	54	
	All-around	Always	22	
	Groveler	Always	6	
	Funboard	Always	3	
	Fish	Always	5	

**Be careful.**  
Take in mind that the 61% of surfers who use a shortboard are advanced surfers.

# ANALYSIS

## 4th Analysis:

- Understand which type of surfboard allows a better performance in a specific parameter
  - I choose flotation parameter and excellent

	board_type	performance_flotation	COUNT(board_type)
▶	All-around	Excellent	19
	Shortboard	Excellent	26
	Funboard	Excellent	2
	Fish	Excellent	4
	Groveler	Excellent	5

**Flotation depends on the surfboard measures, especially volume.  
For a better understanding maybe surfboard volume could be added.**





### **5th Analysis:**

- Understand which type of surfboard suits the best for the wave shape and wave height

According to data waves can be either spilling shape (waves that gradually breaks) or plunging shape (barrel shape).

According to data there are a lot of wave heights.

# CONCLUSIONS

- Dataset doesn't provide much information for beginner surfers
- Most of the information come from advanced surfers
- Data needs to be cleaned

## **Solutions for Ironhack Surf School:**

1. Focus on advanced surfers - provide different surfboards (shortboards) and advanced classes supported by data and film analysis.
2. Focus on beginner surfers - create a survey and gather information next to surf schools
3. Mix approach - focus both on advanced and beginner surfers.

## **Future Actions:**

- Going deep on the analysis of surfboards measures
- Create a survey to define which are the best wetsuits
- Create a survey to define prices for rentals and classes

THANK YOU 🙌

