





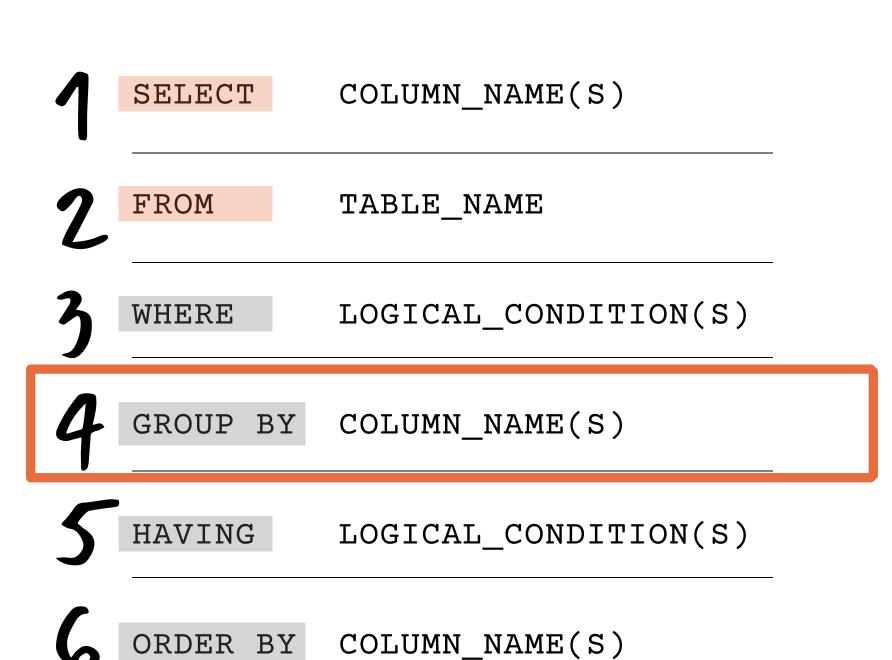
Necessary

Optional

SELECT COLUMN_NAME(S) FROM TABLE_NAME WHERE LOGICAL_CONDITION(S) COLUMN_NAME(S) LOGICAL_CONDITION(S) ORDER BY COLUMN_NAME(S)

Necessary

Optional

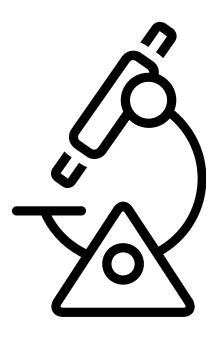


Necessary

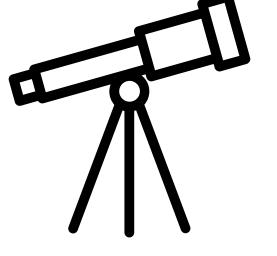
Optional

IDENTIFIES COLUMN(S) SELECT FROM IDENTIFIES TABLE WHERE RECORD-FILTERING CRITERIA GROUP BY SPECIFIES HOW TO GROUP DATA HAVING GROUP-FILTERING CRITERIA SPECIFIES ORDER OF RESULTS

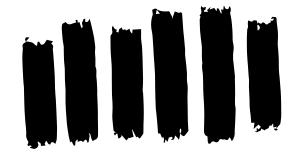
SO WHAT'S SOGREAT GROUP BY?



Zoom In

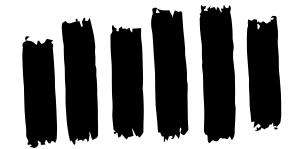


Zoom Out



What if I want to group the observations in my dataset by item_name...

	item_name	item_price
0	Chips and Fresh Tomato Salsa	2.39
1	Izze	3.39
2	Nantucket Nectar	3.39
3	Chips and Tomatillo-Green Chili Salsa	2.39
4	Chicken Bowl	8.49
5	Chicken Bowl	10.98
6	Side of Chips	1.69
7	Steak Burrito	11.75
8	Steak Soft Tacos	9.25
9	Steak Burrito	9.25

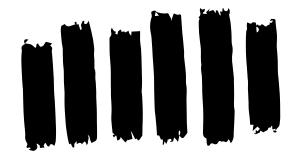


... such that each row represents one unique item_name?

	item_name
0	6 Pack Soft Drink
1	Barbacoa Bowl
2	Barbacoa Burrito
3	Barbacoa Crispy Tacos
4	Barbacoa Salad Bowl
5	Barbacoa Soft Tacos
6	Bottled Water
7	Bowl
8	Burrito
9	Canned Soda
10	Canned Soft Drink
11	Carnitas Bowl
12	Carnitas Burrito
13	Carnitas Crispy Tacos
14	Carnitas Salad
15	Carnitas Salad Bowl
16	Carnitas Soft Tacos
17	Chicken Bowl

I have 2 observations with the item_name Crispy Tacos.

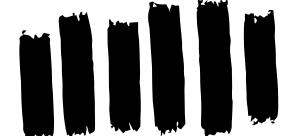
	item_name	item_price
520	Crispy Tacos	7.4
521	Crispy Tacos	7.4



I have 7 observations with the item_name Veggie Soft Tacos.

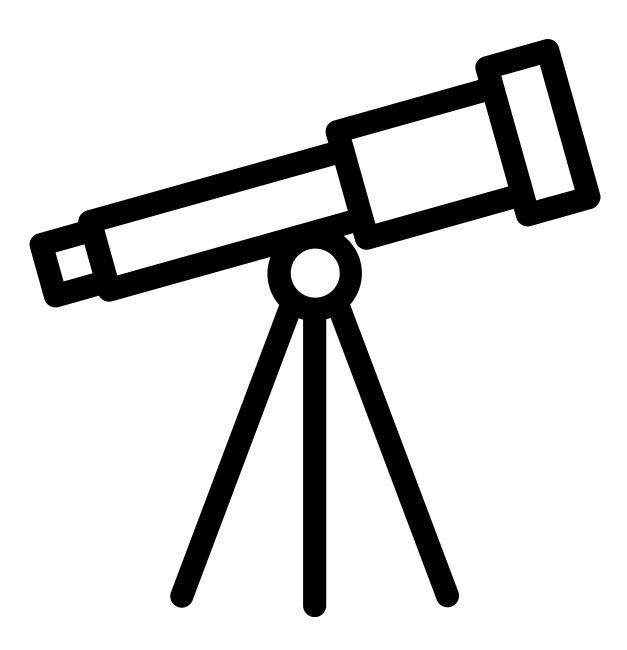
	item_name	item_price
738	Veggie Soft Tacos	11.25
781	Veggie Soft Tacos	8.75
1395	Veggie Soft Tacos	8.49
1699	Veggie Soft Tacos	11.25
2384	Veggie Soft Tacos	8.75
2851	Veggie Soft Tacos	8.49
3889	Veggie Soft Tacos	8.49

DOES GROUP BY



And I have hundreds of observations with the item_name Chicken Bowl.

	item_name	item_price
4	Chicken Bowl	8.49
5	Chicken Bowl	10.98
13	Chicken Bowl	11.25
19	Chicken Bowl	8.75
26	Chicken Bowl	8.49
	•••	
4590	Chicken Bowl	11.25
4591	Chicken Bowl	8.75
4595	Chicken Bowl	8.75
4599	Chicken Bowl	8.75
4604	Chicken Bowl	8.75



IHESE

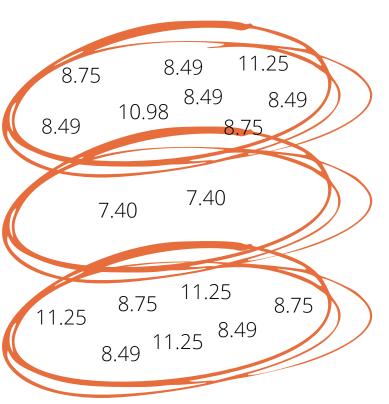


item_name

Chicken Bowl

Crispy Tacos

Veggie Soft Tacos



USE AN AGGREGATE FUNCTION SIIMMARI7F



item_price_mean

item_name	
Chicken Bowl	9.66
Crispy Tacos	7.40
Veggie Soft Tacos	9.35



item_count

item_name

Chicken Bowl 726
Crispy Tacos 2
Veggie Soft Tacos 7

USE AN AGGREGATE FUNCTION

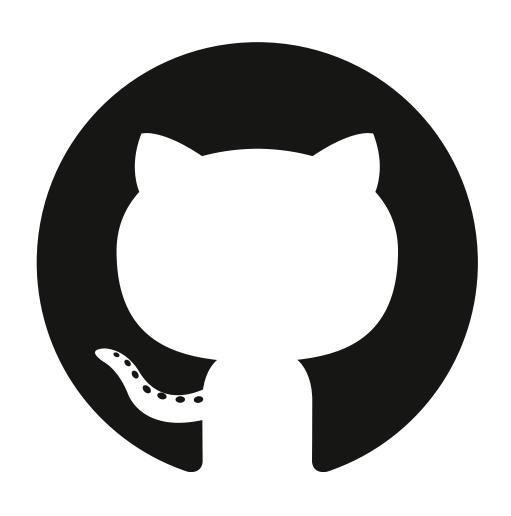


item_price_sum

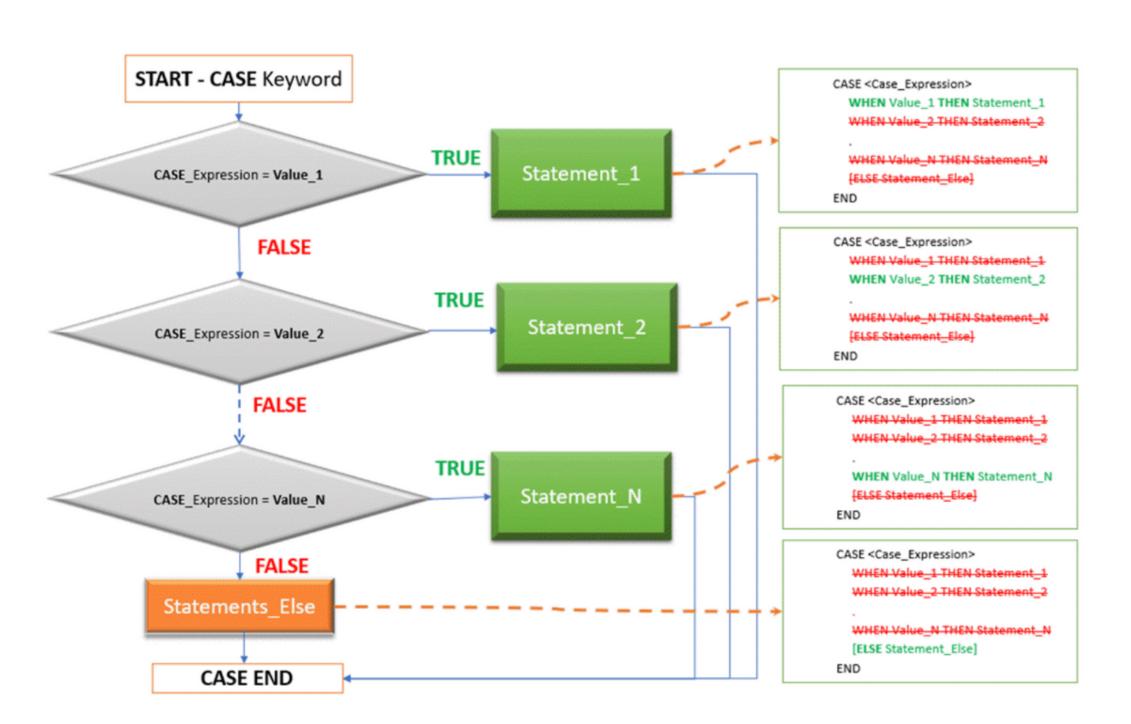
item_name

Chicken Bowl	7011.51
Crispy Tacos	14.80
Veggie Soft Tacos	65.47

CHECK NOTEBOOK HERE



F 3 LOOKAT



2021

Necessary

Optional

SELECT

COLUMN_NAME(S),

CASE

WHEN COLUMN_NAME CONDITION_A THEN VALUE_1

WHEN COLUMN_NAME CONDITION_B THEN VALUE_2

ELSE VALUE_3

END AS NEW_COLUMN_NAME

FROM

TABLE_NAME

WHERE

LOGICAL_CONDITION(S)

GROUP BY

COLUMN_NAME(S)

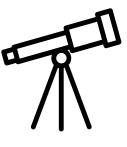
LOGICAL_CONDITION(S)

COLUMN_NAME(S)

USE THE SAME OPERATORS AS CLAUSES

Operator	What it Means
=	Equals
<>	Does NOT Equal
>	Greater Than
<	Less Than
>=	Greater Than Or Equal To
<=	Less Than Or Equal To
BETWEEN	A Range Between Two Values
LIKE	Matching a Pattern Like This
IN()	Equals One of These Values

WHY DO WEUSE CASE > STATEMENTS?



WHEN I WANT TO ZOOM OUT OR REDUCE THE NOISE IN MY DATA



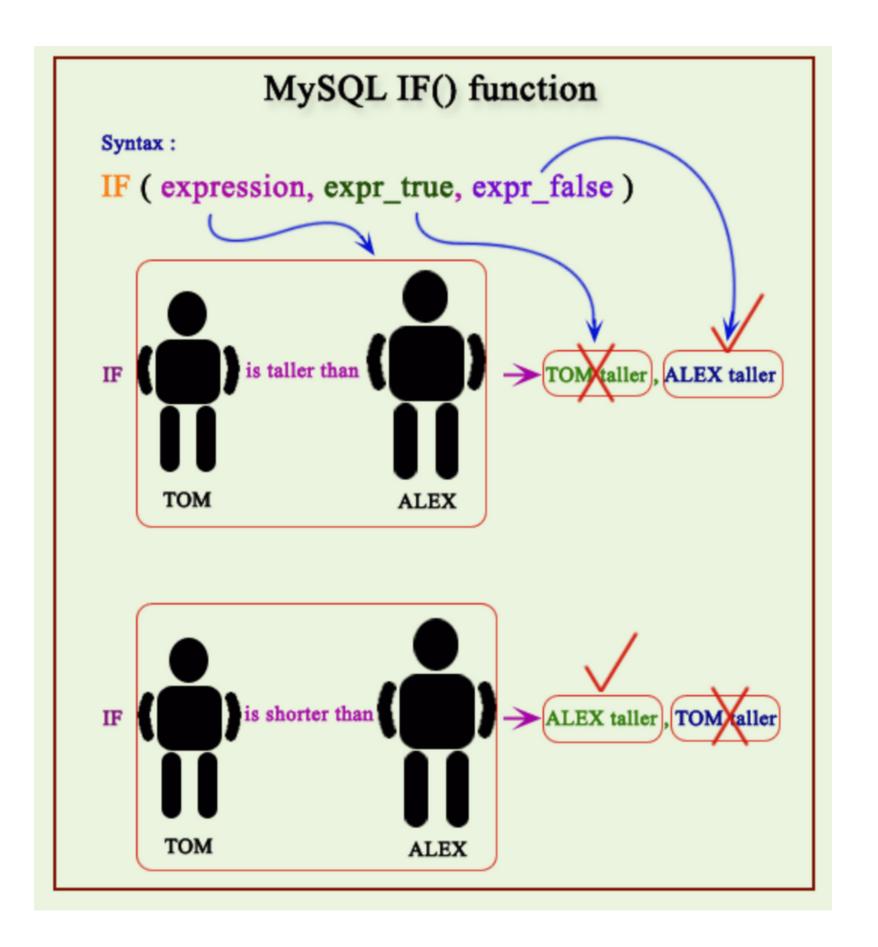
WHEN I WANT TO BUCKET OR BIN
MY VALUES

WHEN DO WE USE CASE STATEMENTS?

WHEN I HAVE MORE THAN TWO
OPTIONAL VALUES

WHEN I NEED MORE FLEXIBILITY
IN MY CONDITIONAL TESTS

LET'S LOOK ATTHE FFUNCTION



COLUMN_NAME(S),

IF (CONDITION, VAL_IF_TRUE, VAL_IF_FALSE) AS NEW_COLUMN

FROM TABLE_NAME

WHERE LOGICAL_CONDITION(S)

GROUP BY COLUMN_NAME(S)

HAVING LOGICAL_CONDITION(S)

CORDER BY COLUMN_NAME(S)

WHYDO WEUSETHE -> IFFUNCTION?

WHEN I AM EVALUATING A SINGLE CONDITION TO TRUE OR FALSE

IF I WANT A COLUMN OF BOOLEAN VALUES (DUMMY VARIABLE)

CHECK NOTEBOOK HERE

