EXAMPLE #7

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58
Bellandur	Bananas	January 17,2016	2342.33
Bellandur	Nutella	January 17,2016	6345.10
Bellandur	Peanut Butter	January 17,2016	5673.01
Bellandur	Milk	January 17,2016	4543.98
Koramangala	Bananas	January 17,2016	8902.65
Koramangala	Nutella	January 17,2016	9114.67
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

StoreLocation	Product	Date	Revenue
Bellandur	Bananas		
Bellandur	Nutella		
Bellandur	Peanut Butter		
Bellandur	Milk		
Koramangala	Bananas		
Koramangala	Nutella		
Koramangala	Peanut Butter		
Koramangala	Milk		
Bellandur	Bananas		
Bellandur	Nutella		
Bellandur	Peanut Butter		
Bellandur	Milk		
Koramangala	Bananas		
Koramangala	Nutella		
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

FIRST, LET'S MENTALLY SORT BY THE STORE LOCATION COLUMN

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

StoreLocation	Product	Date	Revenue
Bellandur	Bananas		
Bellandur	Nutella		
Bellandur	Peanut Butter		
Bellandur	Milk		
Bellandur	Bananas		
Bellandur	Nutella		
Bellandur	Peanut Butter		
Bellandur	Milk		
Koramangala	Bananas		
Koramangala	Nutella		
Koramangala	Peanut Butter		
Koramangala	Milk		
Koramangala	Bananas		
Koramangala	Nutella		
Koramangala	Peanut Butter	January 17,2016	5102.05
Koramangala	Milk	January 17,2016	1299.45

FIRST, LET'S MENTALLY SORT BY THE STORE LOCATION COLUMN

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

StoreLocation	Product
Bellandur	Bananas
	Bananas
	Milk
	Milk
	Nutella
	Nutella
Bellandur	Peanut Butter
Bellandur	Peanut Butter
Koramangala	Bananas
	Bananas
	Milk
	Milk
	Nutella
	Nutella
Koramangala	Peanut Butter
Koramangala	Peanut Butter

DISTINCT VALUE = {BELLANDUR}

DISTINCT VALUE = {KORAMANGALA}

FLATTEN THE TABLE (ELIMINATE EXCESS ROWS!)

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

	Date	Revenue
FLATTEN THE TABLE (ELIMINATE EXCESS ROWS!)		
	ALL	ALL
	ALL	ALL

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

	Date	Revenue
THIN THE TABLE (ELIMINATE EXCESS COLUMNS!)		
	ALL	ALL
	ALL	ALL

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

eLocation

dur

ngala

COUNT THESE!

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

NumUniqueStoreLocations

2

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

SELECT **WHICH COLUMNS?** COUNT DISTINCT VALUES IN STORE LOCATION

FROM **WHICH TABLES?** SALES_DATA

GROUP BY **WHICH ROWS?** ALL

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

SELECT COUNT(DISTINCT StoreLocation) UniqueStoreLocations

FROM SALES_DATA;

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

NumUniqueStoreLocations

2

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

```sql
SELECT
    COUNT(DISTINCT StoreLocation)
    NumUniqueStoreLocations
FROM
    SALES_DATA ;
```

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

SELECT

```
COUNT(DISTINCT StoreLocation)
NumUniqueStoreLocations
```

FROM

SALES_DATA ;

THIS LINE IS VERY INTERESTING, LET'S BREAK IT DOWN!

COUNT(DISTINCT StoreLocation)
NumUniqueStoreLocations

THIS LINE IS VERY INTERESTING,
LET'S BREAK IT DOWN!

COUNT IS JUST LIKE SUM, AVG, MIN,
MAX - AN AGGREGATE FUNCTION

COUNT(DISTINCT StoreLocation)
NumUniqueStoreLocations

THIS LINE IS VERY INTERESTING, LET'S BREAK IT DOWN!

COUNT IS JUST LIKE SUM, AVG, MIN, MAX - AN AGGREGATE FUNCTION

THE COLUMN IT OPERATES ON IS DISTINCT STORE LOCATION

COUNT(DISTINCT StoreLocation)
NumUniqueStoreLocations

THIS LINE IS VERY INTERESTING, LET'S BREAK IT DOWN!

COUNT IS JUST LIKE SUM, AVG, MIN, MAX - AN AGGREGATE FUNCTION

THE COLUMN IT OPERATES ON IS DISTINCT STORE LOCATION

DISTINCT ELIMINATES DUPLICATES FROM A COLUMN

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

THIS FUNCTION RETURNS A SINGLE VALUE, CALLED NumUniqueStoreLocations

NumUniqueStoreLocations
2

EXAMPLE #8

WHAT WOULD THIS QUERY RETURN?

WHAT WOULD THIS QUERY RETURN?

SELECT

COUNT(DISTINCT StoreLocation)
NumUniqueStoreLocations

FROM

SALES_DATA ;

ERR.. WE JUST SOLVED THIS

WHAT WOULD THIS QUERY RETURN?

SELECT

COUNT(~~DISTINCT~~ StoreLocation)
Num~~Unique~~StoreLocations

FROM

SALES_DATA ;

EXACTLY.. BUT NOT THIS

WHAT WOULD THIS QUERY RETURN?

SELECT COUNT(StoreLocation) NumStoreLocations

FROM SALES_DATA ;

EXACTLY.. BUT NOT THIS

FIND THE NUMBER OF UNIQUE STORE LOCATIONS

THIS FUNCTION RETURNS A SINGLE VALUE, CALLED NumStoreLocations

NumStoreLocations
16