

### Day 1 of SQL Advent Calendar

#### Today's Question:

A ski resort company want to know which customers rented ski equipment for more than one type of activity (e.g., skiing and snowboarding). List the customer names and the number of distinct activities they rented equipment for.

#### Table name: rentals

rental_id	customer_name	activity	rental_date
1	Emily	Skiing	2024-01-01
2	Michael	Snowboarding	2024-01-02
3	Emily	Snowboarding	2024-01-03
4	Sarah	Skiing	2024-01-01
5	Michael	Skiing	2024-01-02
6	Michael	Snowtubing	2024-01-02

Question level of difficulty: Medium



## Write your SQL query here 1

```
SELECT
        customer_name,
        COUNT(DISTINCT activity) AS distinct_activities
        rentals
    GROUP BY
        customer_name
        COUNT(DISTINCT activity) > 1;
10
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct



















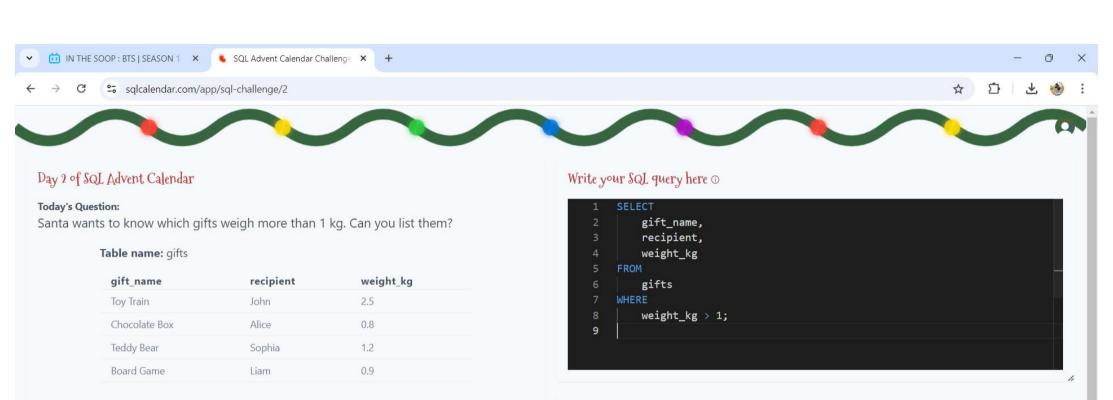












Question level of difficulty: Easy



### Is your query correct?

### Submit Answer

Click "Submit Answer" to see if your answer is correct































### Day 3 of SQL Advent Calendar

#### Today's Question:

You're trying to identify the most calorie-packed candies to avoid during your holiday binge. Write a query to rank candies based on their calorie count within each category. Include the candy\_name, candy\_category, calories, and rank (rank\_in\_category) within the category.

#### Table name: candy\_nutrition

candy_id	candy_name	calories	candy_category
1	Candy Cane	200	Sweets
2	Chocolate Bar	250	Chocolate
3	Gingerbread Cookie	150	Baked Goods
4	Lollipop	100	Sweets
5	Dark Chocolate Truffle	180	Chocolate
6	Marshmallow	900	Sweets
7	Sugar Cookie	140	Baked Goods

### Question level of difficulty: Hard



### Write your SQL query here 1

```
WITH RankedCandies AS (
    SELECT
        candy_name,
        candy_category,
        calories,
        DENSE_RANK() OVER (PARTITION BY candy_category ORDER BY calories
        candy_nutrition
SELECT
    candy_name,
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct

























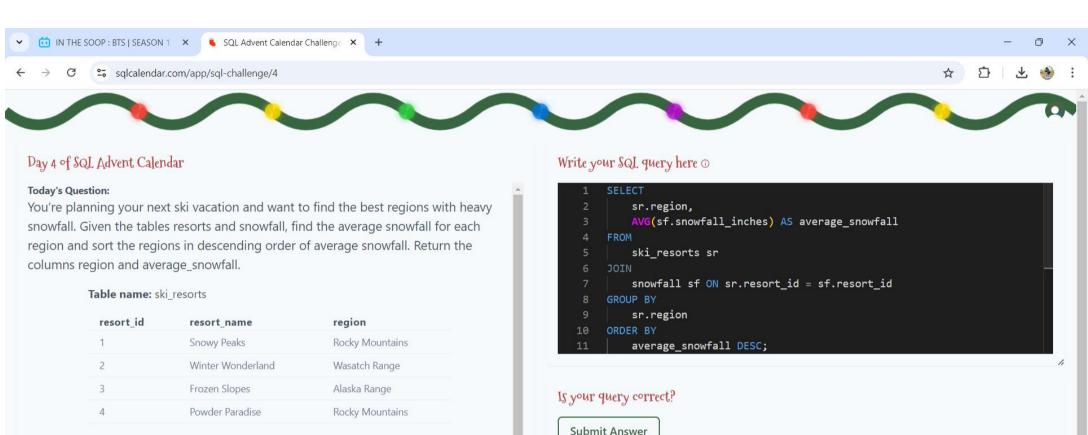


Table name: snowfall

resort_id	snowfall_inches
1	60
2	45
3	75
4	55
Advent Calendar	

Click "Submit Answer" to see if your answer is correct



← Back to





























### Day 5 of SQL Advent Calendar

#### Today's Question:

This year, we're celebrating Christmas in the Southern Hemisphere! Which beaches are expected to have temperatures above 30°C on Christmas Day?

Table name: beach\_temperature\_predictions

beach_name	country	expected_temperature_c	date
Bondi Beach	Australia	32	2024- 12-24
Copacabana Beach	Brazil	28	2024- 12-24
Clifton Beach	South Africa	31	2024- 12-25
Brighton Beach	New Zealand	25	2024- 12-25

Question level of difficulty: Easy



## Write your SQL query here 1

```
SELECT
        beach_name,
        country,
        expected_temperature_c
        beach_temperature_predictions
        expected_temperature_c > 30
10
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct





























### Day 6 of SQL Advent Calendar

#### Today's Question:

Scientists are tracking polar bears across the Arctic to monitor their migration patterns and caloric intake. Write a query to find the top 3 polar bears that have traveled the longest total distance in December 2024. Include their bear\_id, bear\_name, and total\_distance\_traveled in the results.

#### Table name: polar\_bears

bear_id	bear_name	age
1	Snowball	10
2	Frosty	7
3	Iceberg	15
4	Chilly	5

#### Table name: tracking

	tracking_id	bear_id	distance_km	date
	1	1	25	2024-12-01
	2	2	40	2024-12-02
	3	1	30	2024-12-03
	4	3	50	2024-12-04
← Back to	Advent Calendar			

## Write your SQL query here 1

```
SELECT
    pb.bear id,
    pb.bear_name,
    SUM(t.distance_km) AS total_distance_traveled
    polar_bears pb
    tracking t ON pb.bear_id = t.bear_id
    t.date BETWEEN '2024-12-01' AND '2024-12-31'
GROUP BY
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct





















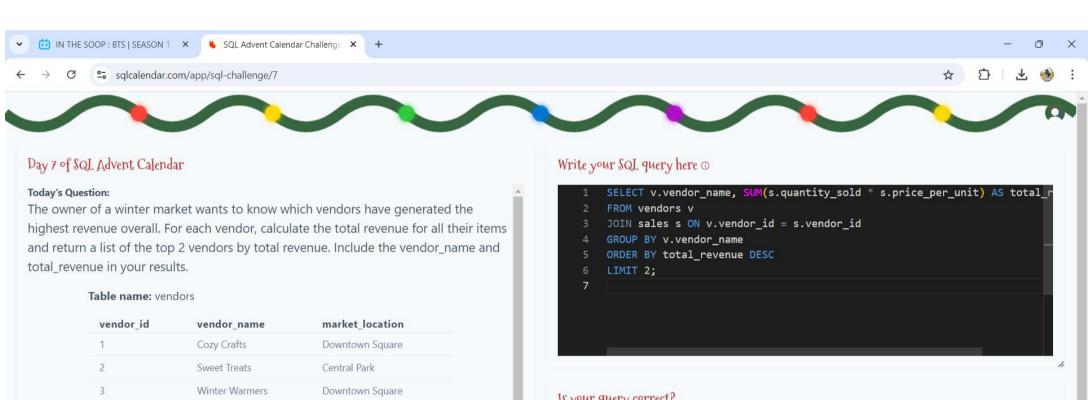












#### Table name: sales

sale_id	vendor_id	item_name	quantity_sold	price_per_unit
1	1	Knitted Scarf	15	25
2	2	Hot Chocolate	50	3.5
3	3	Wool Hat	20	18
		Handmade	40	A F

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct





























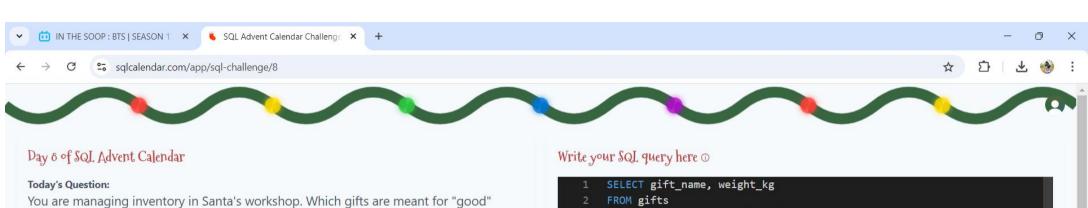


Table name: gifts

recipients? List the gift name and its weight.

gift_id	gift_name	recipient_type	weight_kg
1	Toy Train	good	2.5
2	Lumps of Coal	naughty	1.5
3	Teddy Bear	good	1.2
4	Chocolate Bar	good	0.3
5	Board Game	naughty	1.8

Question level of difficulty: Easy



### Is your query correct?

Submit Answer

Click "Submit Answer" to see if your answer is correct



























### Day 9 of SQL Advent Calendar

#### Today's Question:

A community is hosting a series of festive feasts, and they want to ensure a balanced menu. Write a query to identify the top 3 most calorie-dense dishes (calories per gram) served for each event. Include the dish\_name, event\_name, and the calculated calorie density in your results.

#### Table name: events

event_id	event_name	
1	Christmas Eve Dinner	
2	New Years Feast	
3	Winter Solstice Potluck	

#### Table name: menu

	dish_id	dish_name	event_id	calories	weight_g
	1	Roast Turkey	1	3500	5000
	2	Chocolate Yule Log	1	2200	1000
	3	Cheese Fondue	2	1500	800
	4	Holiday Fruitcake	3	4000	1200
	5	Honev Glazed Ham	2	2800	3500
← Back to	Advent Calen	dar			

## Write your SQL query here 1

```
WITH CalorieDensity AS (
    SELECT
        m.dish_name,
        e.event_name,
       m.calories / m.weight_g AS calorie_density,
        m.event_id
   FROM
        menu m
        events e ON m.event_id = e.event_id
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct































calculate the following for each friend: number of resolutions they made, number of resolutions they completed, and success percentage (% of resolutions completed) and a success category based on the success percentage:

- Green: If success percentage is greater than 75%.

- Yellow: If success percentage is between 50% and 75% (inclusive).

- Red: If success percentage is less than 50%.

#### Table name: resolutions

	resolution_id	friend_name	resolution	is_completed
	1	Alice	Exercise daily	1
	2	Alice	Read 20 books	0
	3	Bob	Save money	0
	4	Bob	Eat healthier	1
	5	Charlie	Travel more	1
	6	Charlie	Learn a new skill	1
	7	Diana	Volunteer monthly	1
77 Av. 118	8	Diana	Drink more water	0
← Back to	Advent Calendar			

COUNT(resolution id) AS total resolutions, SUM(is completed) AS completed resolutions, (SUM(is completed) \* 100.0 / COUNT(resolution id)) AS success percen WHEN (SUM(is completed) \* 100.0 / COUNT(resolution id)) > 75 THE WHEN (SUM(is completed) \* 100.0 / COUNT(resolution id)) BETWEEN ELSE 'Red' END AS success category FROM

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct























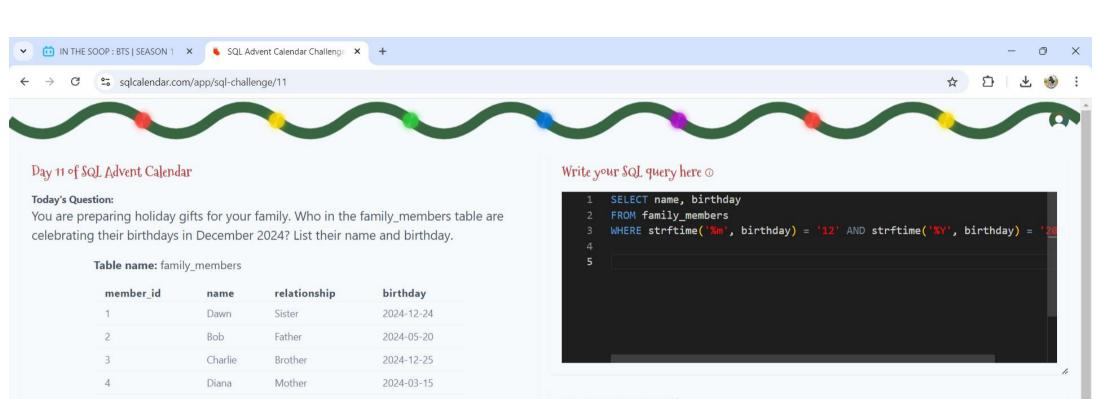












Question level of difficulty: Easy



### Is your query correct?

Submit Answer

Click "Submit Answer" to see if your answer is correct



























#### Today's Question:

A collector wants to identify the top 3 snow globes with the highest number of figurines. Write a query to rank them and include their globe\_name, number of figurines, and material.

### Table name: snow\_globes

globe_id	globe_name	volume_cm3	material
1	Winter Wonderland	500	Glass
2	Santas Workshop	300	Plastic
3	Frozen Forest	400	Glass
4	Holiday Village	600	Glass

#### Table name: figurines

figurine_id	globe_id	figurine_type
1	1	Snowman
2	1	Tree
3	2	Santa Claus
4	2	Elf
-	2	C:ft n

```
SELECT sg.globe_name, sg.material, COUNT(f.figurine_id) AS number_of_fig
FROM snow globes sg
JOIN figurines f ON sg.globe_id = f.globe_id
GROUP BY sg.globe_id
ORDER BY number_of_figurines DESC
LIMIT 3;
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct



















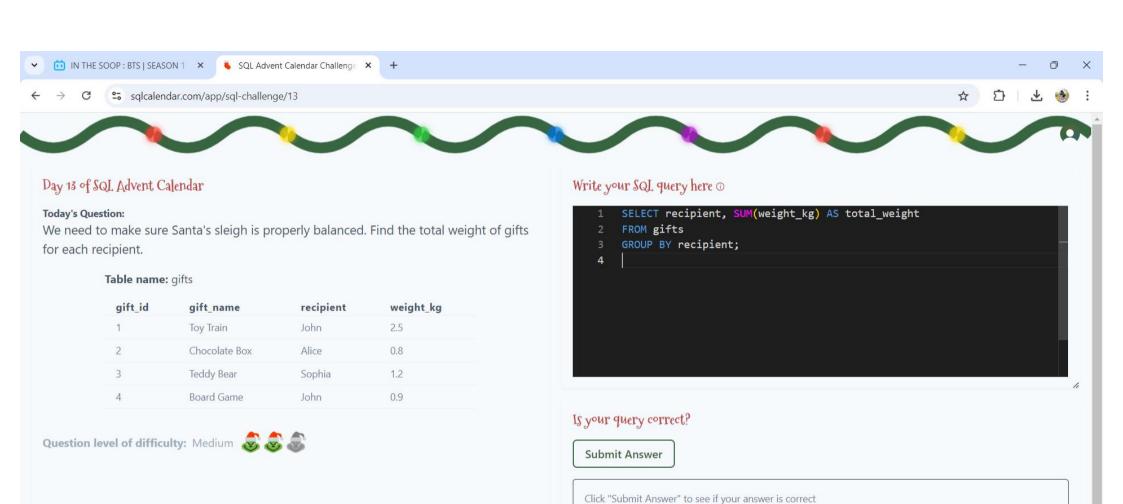


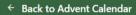




























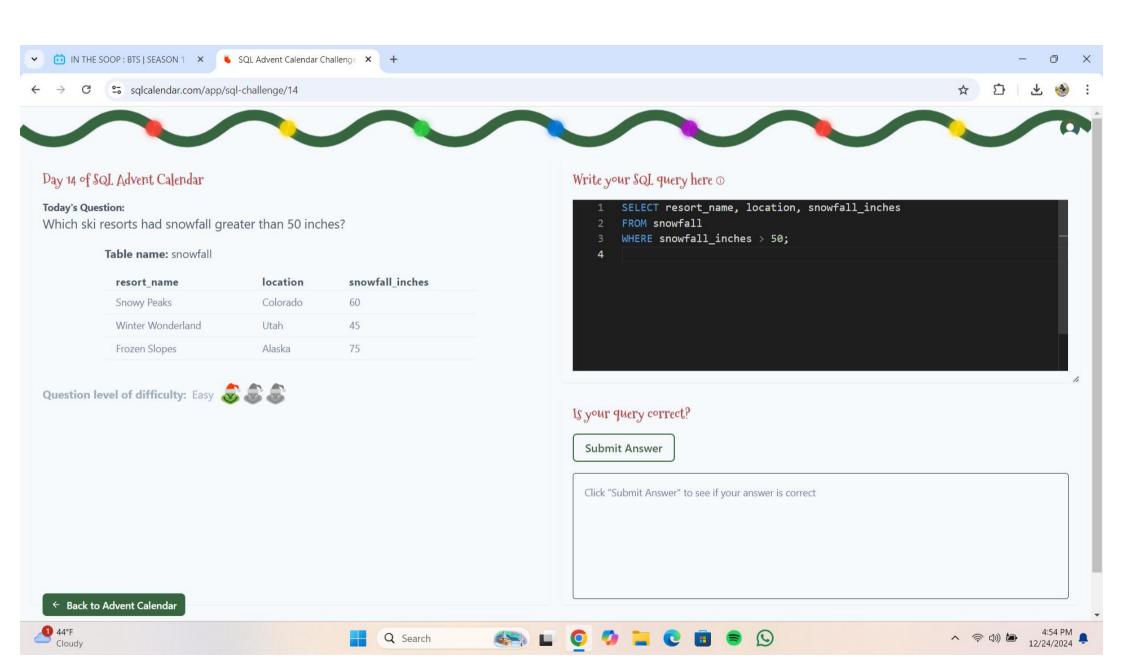


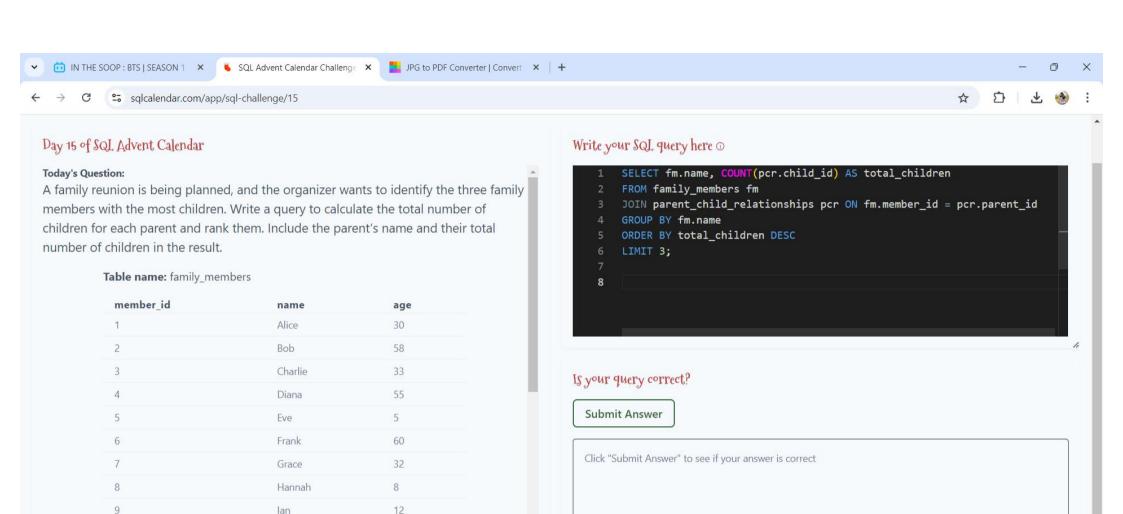












← Back to Advent Calendar

10





Jack



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#### Today's Question:

As the owner of a candy store, you want to understand which of your products are selling best. Write a query to calculate the total revenue generated from each candy category.

### Table name: candy\_sales

sale_id	candy_name	quantity_sold	price_per_unit	category
1	Candy Cane	20	1.5	Sweets
2	Chocolate Bar	10	2	Chocolate
3	Lollipop	5	0.75	Sweets
4	Dark Chocolate Truffle	8	2.5	Chocolate
5	Gummy Bears	15	1.2	Sweets
6	Chocolate Fudge	12	3	Chocolate

Question level of difficulty: Medium



```
SELECT category, SUM(quantity_sold * price_per_unit) AS total_revenue
FROM candy_sales
GROUP BY category;
```

### Is your query correct?

Submit Answer

Click "Submit Answer" to see if your answer is correct

















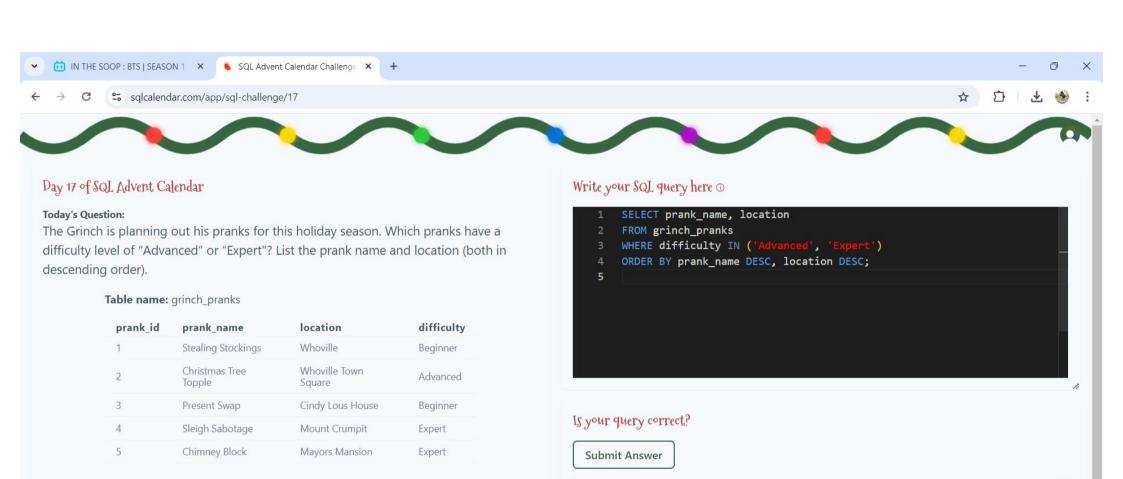












Question level of difficulty: Easy



Click "Submit Answer" to see if your answer is correct















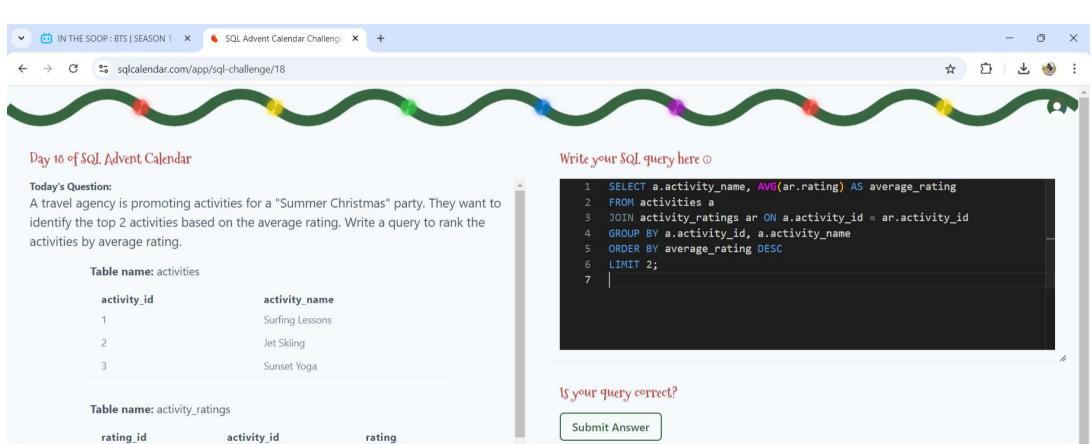












rating_id	activity_id	rating
1	1	4.7
2	1	4.8
3	1	4.9
4	2	4.6
5	2	4.7
9	n	A O

Click "Submit Answer" to see if your answer is correct



























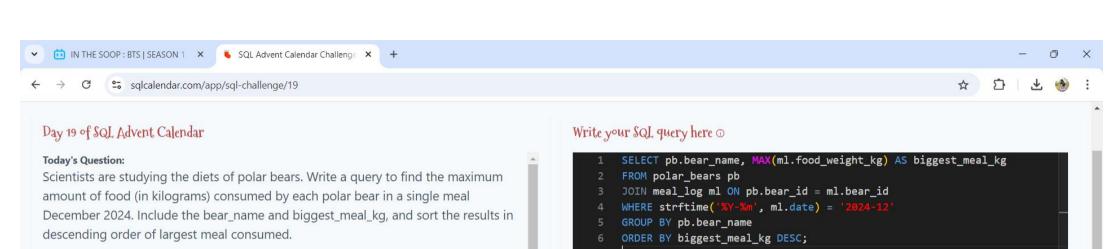


Table name: polar\_bears

bear_id	bear_name	age
1	Snowball	10
2	Frosty	7
3	Iceberg	15

#### Table name: meal\_log

log_id	bear_id	food_type	food_weight_kg	date
1	1	Seal	30	2024-12-01
2	2	Fish	15	2024-12-02
3	1	Fish	10	2024-12-03
4	3	Seal	25	2024-12-04
5	2	Seal	20	2024-12-05

# Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct



















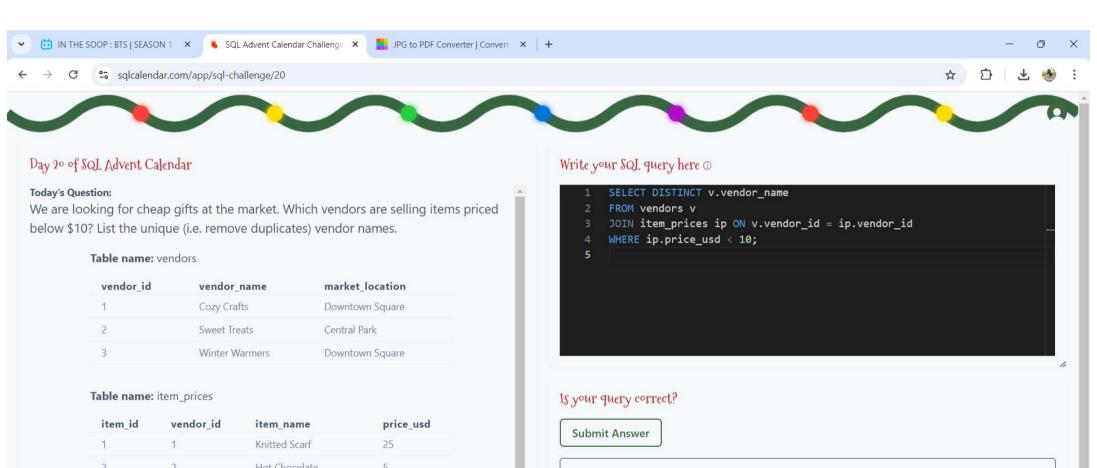


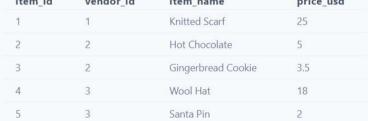












Click "Submit Answer" to see if your answer is correct



























### Day 21 of SQL Advent Calendar

#### Today's Question:

Santa needs to optimize his sleigh for Christmas deliveries. Write a guery to calculate the total weight of gifts for each recipient type (good or naughty) and determine what percentage of the total weight is allocated to each type. Include the recipient\_type, total\_weight, and weight\_percentage in the result.

#### Table name: gifts

gift_id	gift_name	recipient_type	weight_kg
1	Toy Train	good	2.5
2	Lumps of Coal	naughty	1.5
3	Teddy Bear	good	1.2
4	Chocolate Bar	good	0.3
5	Board Game	naughty	1.8

Question level of difficulty: Hard



### Write your SQL query here 1

```
WITH total_weights AS (
    SELECT recipient_type, SUM(weight_kg) AS total_weight
    FROM gifts
    GROUP BY recipient_type
total_sum AS (
    SELECT SUM(total_weight) AS total_weight_sum
    FROM total_weights
SELECT
    tw.recipient_type,
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct





















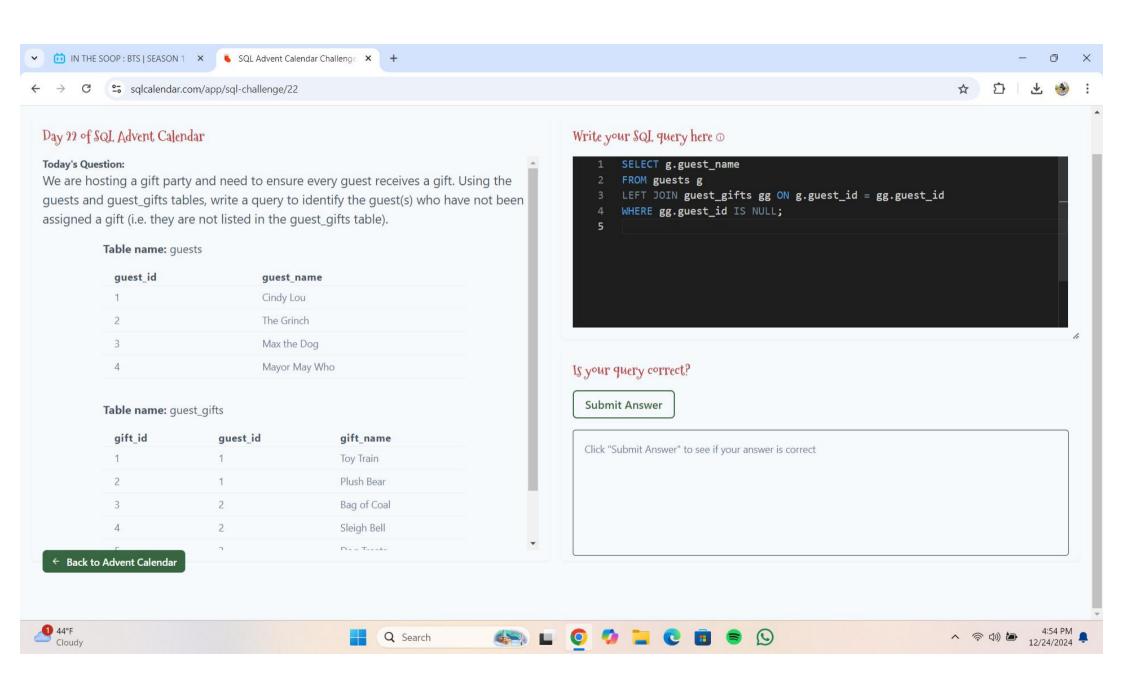














### Day 23 of SQL Advent Calendar

#### Today's Question:

The Grinch tracked his weight every day in December to analyze how it changed daily. Write a guery to return the weight change (in pounds) for each day, calculated as the difference from the previous day's weight.

### Table name: grinch\_weight\_log

log_id	day_of_month	weight
1	1	250
2	2	248
3	3	249
4	4	247
5	5	246
6	6	248

Question level of difficulty: Medium & & &



### Write your SQL query here 1

```
g1.day_of_month,
   g1.weight - g2.weight AS weight_change
FROM
   grinch_weight_log g1
   grinch_weight_log g2
   g1.day_of_month = g2.day_of_month + 1
   g1.day_of_month;
```

### Is your query correct?

#### Submit Answer

Click "Submit Answer" to see if your answer is correct





























#### Table name: deliveries

delivery_date	gifts_delivered
2024-12-20	120
2024-12-21	150
2024-12-22	200
2024-12-23	300
2024-12-24	500

Question level of difficulty: Hard

Is your query correct?

**Submit Answer** 

Click "Submit Answer" to see if your answer is correct

delivery\_date;

























