This Amazon Interview Question

Stumped 80% of Candidates

"Find all orders placed on weekends in Q1 2024"

🤔 *Most people overthink this...*

Can you solve this?

❌ What 80% Do Wrong

1. Try complex CASE statements
2. Manual date checking for each day
3. Nested subqueries with calendar tables
4. Overthinking the logic

📚 Understanding WEEKDAY()

Starts with Monday = 0

Monday	=	0
Tuesday	=	1
Wednesday	=	2
Thursday	=	3
Friday	=	4
Saturday	=	5
Sunday	=	6

🎯 **Weekend = 5 & 6**

🗂️ Understanding DAYOFWEEK()

Starts with Sunday = 1

Sunday	=	1
Monday	=	2
Tuesday	=	3
Wednesday	=	4
Thursday	=	5
Friday	=	6
Saturday	=	7

🎯 **Weekend = 1 & 7**

✅ Solution #1: WEEKDAY()

MySQL, PostgreSQL

```
SELECT *
FROM orders
WHERE order_date BETWEEN '2024-01-01'
      AND '2024-03-31'
  AND WEEKDAY(order_date) IN (5, 6)
```

💡 **Saturday=5, Sunday=6**

✅ Solution #2: DAYOFWEEK()

MySQL, SQL Server

```
SELECT *
FROM orders
WHERE order_date BETWEEN '2024-01-01'
      AND '2024-03-31'
  AND DAYOFWEEK(order_date) IN (1, 7)
```

💡 **Sunday=1, Saturday=7**

💡 The Pattern

When you see these keywords:

- "weekend"
- "business days"
- "day of week"
- "weekday vs weekend"

→ Think: WEEKDAY() or DAYOFWEEK()

📊 40% of date-based interview questions use this pattern

🎯 Similar Questions

Q: Orders placed on Mondays

```
WEEKDAY(date) = 0
```

Q: Business days only

```
WEEKDAY(date) < 5
```

Q: Weekend vs Weekday sales

```
GROUP BY WEEKDAY(date) IN (5,6)
```