



# 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?**

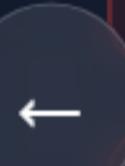
# X What 80% Do Wrong

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

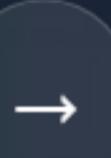
⌚ Weekend = 1 & 7



## 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)
```