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# **Data Analyst Challenge**

## SQL Test Prompt - First Call Resolution

You are given a schema with these simplified tables:

```
Customer (customer_id PK, ...)
operator (operator_id PK, ...)
call (call_id PK, customer_id FK, operator_id FK, created_at TIMESTAMP, direction TEXT)
```

#### Definition

- We say a call has achieved first call resolution (FCR) if the same customer does not place another call within 7 days after that call.
- If the customer makes another call within 7 days, then the issue is considered unresolved.

## Task:

Write a SQL query that returns, for a given date range:

- operator\_id
- total number of calls received by this operator
- number of first-call resolutions (FCR) by this operator
- percentage of calls handled by this operator that were FCR

### Notes:

- Consider only inbound calls.
- Output should be aggregated at the operator level.
- Aim for clarity and correctness in your query.