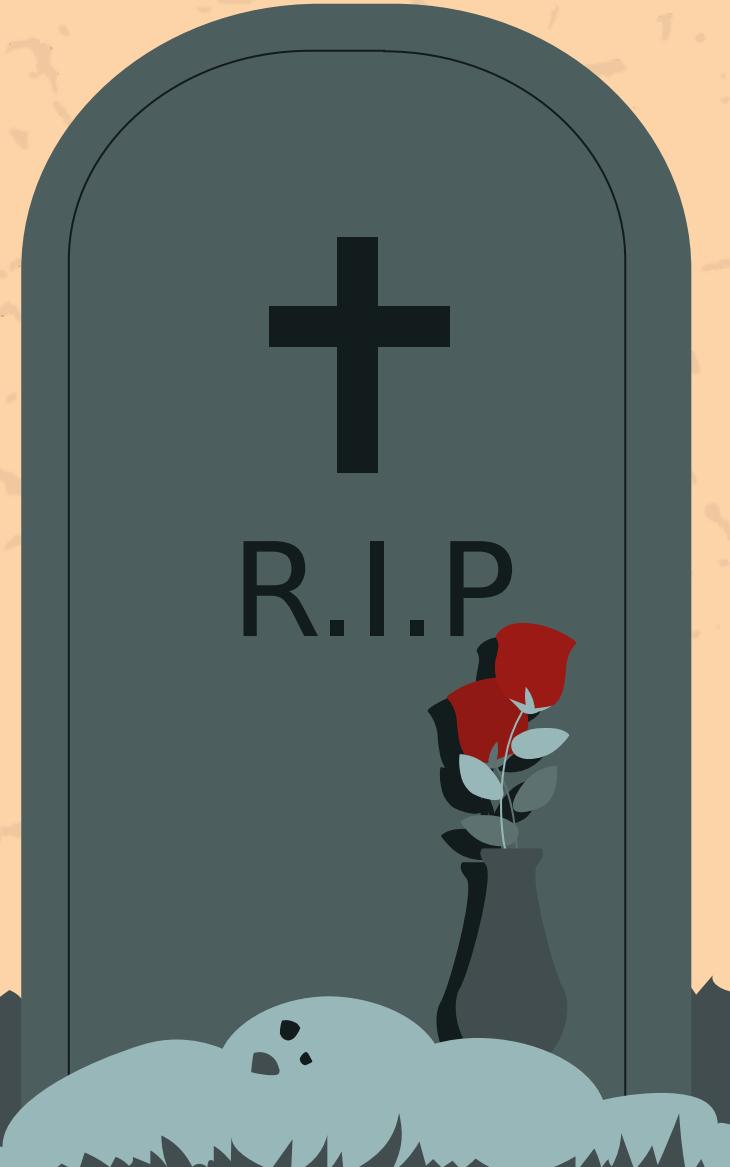


# SQL MURDER Mystery

“Who killed the CEO?”



R.I.P.

# Case File: Incident Briefing

On the night of October 15, 2025, at 9:00 PM,  
the CEO of TechNova Inc. was found murdered inside their office.

Chaos erupted within the company —  
but the truth was buried not in fingerprints...  
but in data.

My mission:  
Interrogate the databases. Expose the killer. Close the case.



# Lead data analyst!

The CEO is dead. Panic across TechNova Inc.  
All clues are buried inside the company's  
databases. It's my duty to interrogate the data,  
expose the lies, and hunt down the killer.

Data never lies. But suspects do

01

## Crime Timeline

Understanding when the murder took place using evidence timestamps.

02

## Access to Crime Scene

Analyzing keycard logs to identify who entered the CEO Office.

03

## Crime Scene Identification

Matching evidence location with the murder site.

04

## Suspicious Clues from Database

Fingerprint + keycard mismatch pointing to suspect behavior.

05

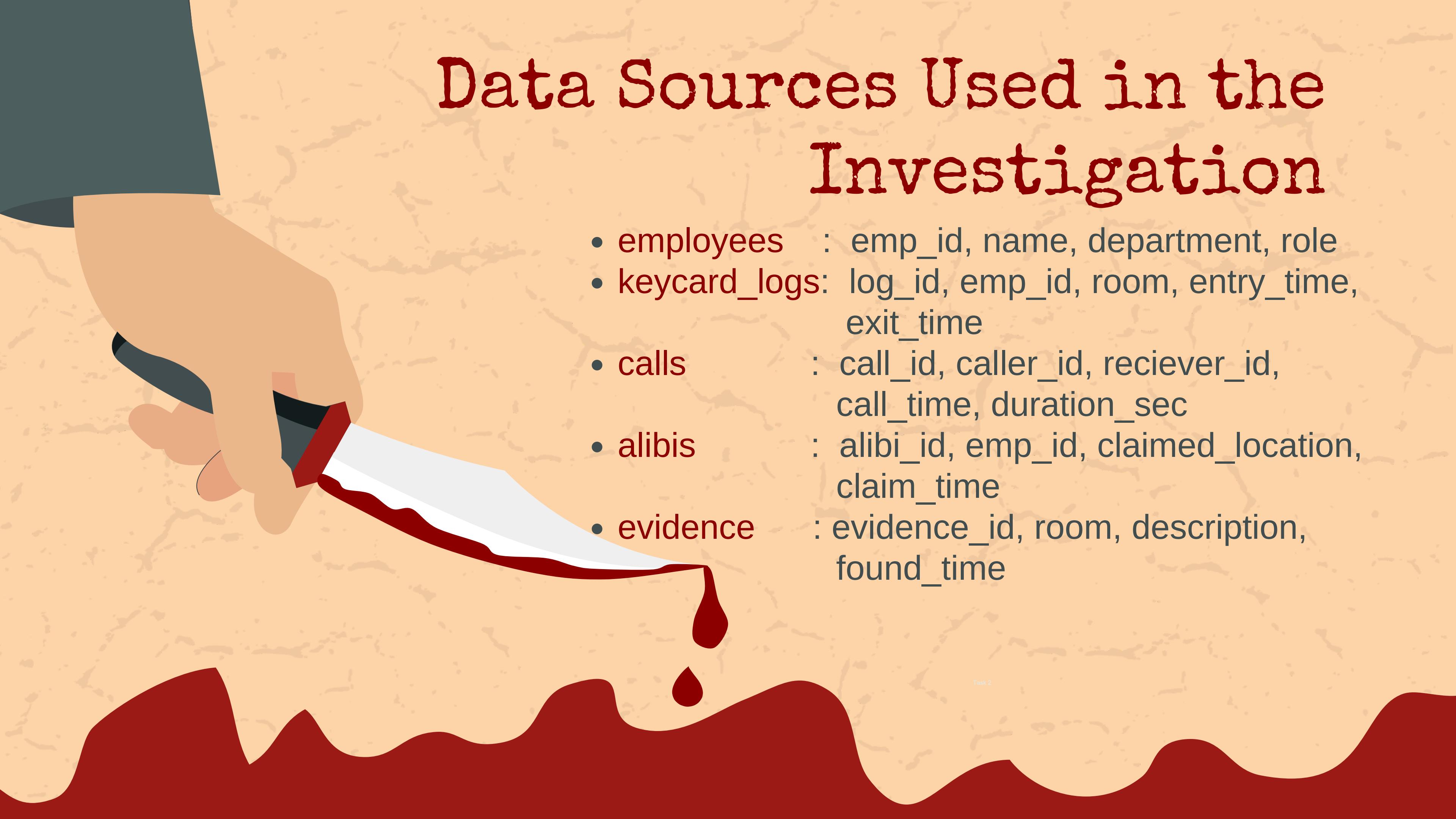
## Suspect Alibi Check

Cross-checking claimed locations with actual movements.

06

## Final Killer Identification

Combining all evidence to expose the murderer.



# Data Sources Used in the Investigation

- employees : emp\_id, name, department, role
- keycard\_logs: log\_id, emp\_id, room, entry\_time, exit\_time
- calls : call\_id, caller\_id, receiver\_id, call\_time, duration\_sec
- alibis : alibi\_id, emp\_id, claimed\_location, claim\_time
- evidence : evidence\_id, room, description, found\_time

01



# Crime Timeline

Determining the exact time and where the CEO was murdered based on evidence timestamps from the database.

```
3 • SELECT *
4   FROM evidence
5 WHERE found_time BETWEEN '2025-10-15 21:00:00' AND '2025-10-15 21:10:00';
6
```

Result Grid			
evidence_id	room	description	found_time
1	CEO Office	Fingerprint on desk	2025-10-15 21:05:00
2	CEO Office	Keypad swipe logs mismatch	2025-10-15 21:10:00
NULL	NULL	NULL	NULL

The earliest evidence (21:05) was discovered in the CEO Office, which is right after the reported murder time (9:00 PM).

Therefore, the CEO Office is confirmed as the crime scene

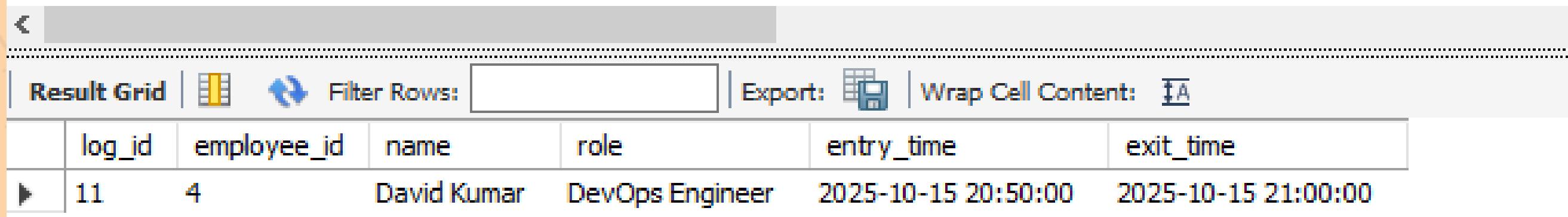
# Access to crime scene

Who Entered the CEO Office?

02



```
1 -- Objective-2: Analyze who accessed critical areas at the time
2 SELECT
3     k.log_id,
4     e.employee_id, e.name, e.role,
5     k.entry_time, k.exit_time
6     FROM keycard_logs k
7     JOIN employees e
8     ON k.employee_id=e.employee_id
9     WHERE room='CEO Office'
10    AND k.entry_time BETWEEN '2025-10-15 20:30:00' AND '2025-10-15 21:30:00';
```



The screenshot shows a MySQL query results window. At the top, there are tabs for 'Result Grid' (selected), 'Filter Rows:', 'Export:', and 'Wrap Cell Content:'. Below the tabs is a table with the following data:

	log_id	employee_id	name	role	entry_time	exit_time
▶	11	4	David Kumar	DevOps Engineer	2025-10-15 20:50:00	2025-10-15 21:00:00

Based on keycard access logs, **David Kumar** (DevOps Engineer) is the only person who entered the CEO Office around the time of the murder (20:50–21:00). He becomes the primary suspect in the ongoing investigation.

03



# Crime Scene Identification

Does David's claim  
match reality?

```
1 -- objective-3: Cross-check alibis with actual logs
2 WITH actual_location AS (
3     SELECT employee_id, room
4     FROM keycard_logs
5     WHERE entry_time BETWEEN '2025-10-15 20:30:00' AND '2025-10-15 21:30:00'
6 )SELECT
7     a.employee_id, e.name,a.claimed_location,a.claim_time,
8     al.room AS actual_room
9     FROM alibis a
10    JOIN actual_location al ON a.employee_id = al.employee_id
11    JOIN employees e ON a.employee_id = e.employee_id
12    WHERE a.claimed_location <> al.room;
```

Result Grid | Filter Rows: [ ] | Export: [ ] | Wrap Cell Content: [ ]

	employee_id	name	claimed_location	claim_time	actual_room
▶	4	David Kumar	Server Room	2025-10-15 20:50:00	CEO Office

David lied about being in the Server Room.  
Keycard logs prove he was actually inside the CEO Office at the time of the murder.



## Suspicious Clues from Database

**Any suspicious call during the murder time?**

We investigate whether David Kumar communicated with anyone during the crime window.

```
1  -- objective-4: Investigate suspicious calls made around the time
2 • SELECT
3   c.call_id,
4   e.name AS caller_name,      -- name of person who made the call
5   r.name AS receiver_name,    -- name of person who received the call
6   c.call_time,
7   c.duration_sec
8 FROM calls c
9 JOIN employees e
10  ON c.caller_id = e.employee_id
11 JOIN employees r
12  ON c.receiver_id = r.employee_id
13 WHERE c.call_time BETWEEN '2025-10-15 20:50:00' AND '2025-10-15 21:30:00';
14
```

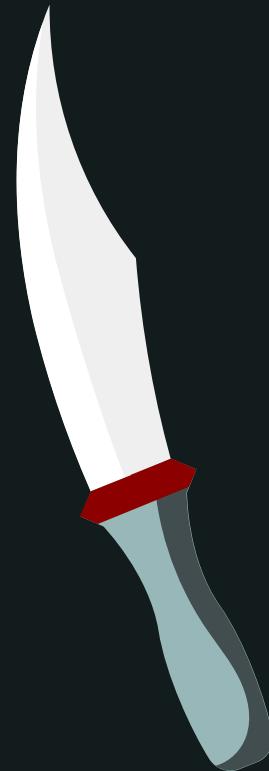
Result Grid | Filter Rows:  Export: Wrap Cell Content:

	call_id	caller_name	receiver_name	call_time	duration_sec
▶	1	David Kumar	Alice Johnson	2025-10-15 20:55:00	45

**David was actively making phone calls during the murder window.**

This confirms he was awake, alert, and inside the CEO Office, not in Server Room as claimed.

05



# Suspect Alibi Check

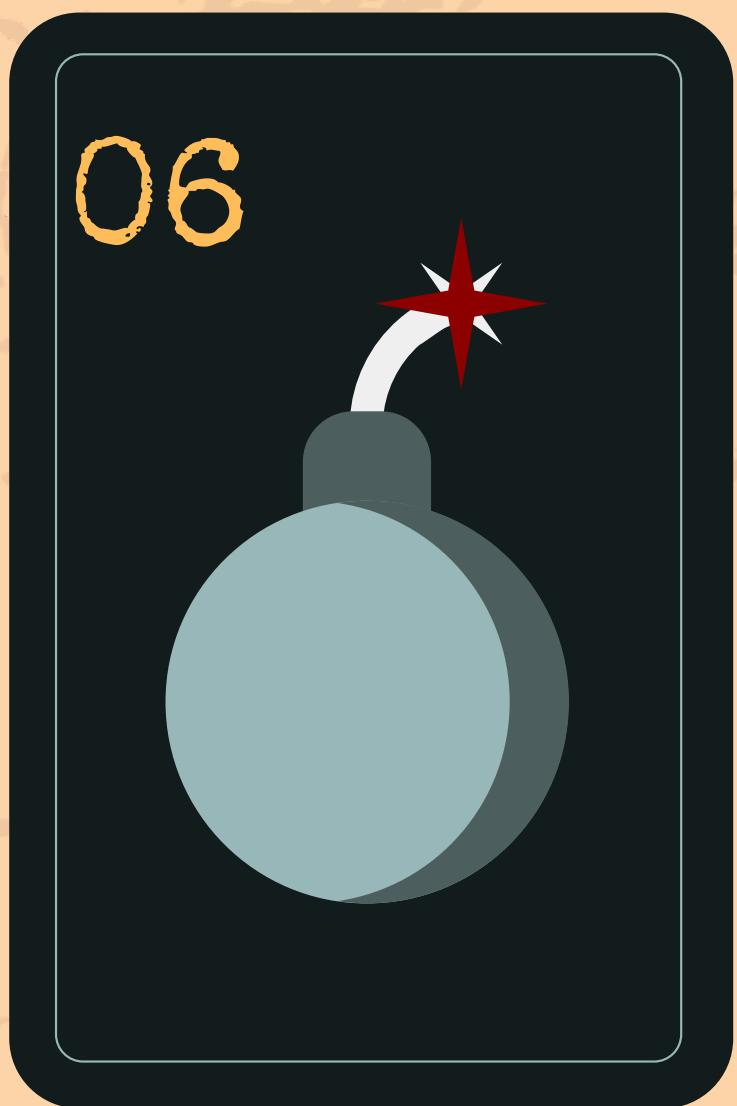
What physical traces expose the truth?  
We connect where the evidence was found with  
who actually accessed that location.

```
6      -- objective 5 : Match evidence with movements and claims
7 •   SELECT
8     e.name,a.claimed_location,a.claim_time,
9     k.room AS actual_room,k.entry_time,
10    ev.description AS evidence_found,ev.found_time
11   FROM employees e
12   JOIN alibis a ON e.employee_id = a.employee_id
13   JOIN keycard_logs k ON e.employee_id = k.employee_id
14   JOIN evidence ev ON k.room = ev.room
15   WHERE e.name = 'David Kumar'
16   AND a.claim_time BETWEEN '2025-10-15 20:50:00' AND '2025-10-15 21:15:00'
```

Result Grid | Filter Rows:  Export: Wrap Cell Content:

	name	actual_room	claimed_location	evidence_found	found_time
▶	David Kumar	CEO Office	Server Room	Fingerprint on desk	2025-10-15 21:05:00
	David Kumar	CEO Office	Server Room	Keycard swipe logs mismatch	2025-10-15 21:10:00

David Kumar **claimed to be in the Server Room**, but keycard records show he was in the CEO Office. Physical evidence found there (**fingerprints & keycard mismatch**) confirms his presence at the crime scene during the murder.



# Final Killer Identification

The data exposes the killer



```
1 WITH access_suspects AS (
2     SELECT DISTINCT e.name
3     FROM employees e
4     JOIN keycard_logs k ON e.employee_id = k.employee_id
5     WHERE k.entry_time BETWEEN '2025-10-15 20:30:00' AND '2025-10-15 21:30:00'
6 ),false_alibi AS (
7     SELECT DISTINCT e.name
8     FROM employees e
9     JOIN alibis a ON e.employee_id = a.employee_id
10    JOIN keycard_logs k ON e.employee_id = k.employee_id
11    WHERE a.claimed_location <> k.room
12    AND a.claim_time BETWEEN '2025-10-15 20:30:00' AND '2025-10-15 21:30:00'
13 ),call_activity AS (
14     SELECT DISTINCT e.name
15     FROM employees e
16     JOIN calls c ON e.employee_id = c.caller_id
17     WHERE c.call_time BETWEEN '2025-10-15 20:30:00' AND '2025-10-15 21:30:00'
18 )
19     SELECT DISTINCT a.name AS killer
20     FROM access_suspects a
21     JOIN false_alibi f ON a.name = f.name
22     JOIN call_activity c ON a.name = c.name;
```

Result Grid

	killer
▶	David Kumar

David Kumar is identified as the killer

# SQL Investigator



Tejaswini Mudunuru

SQL Forensic Analyst —  
uncovering the truth from data

# Conclusions

Through SQL-based forensic investigation,  
**David Kumar (DevOps Engineer)** was  
identified as the killer,  
based on:

**Exclusive access to CEO Office at time of  
murder**

**False alibi proven by keycard logs**

**Phone call activity during crime window**

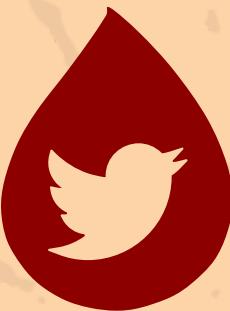
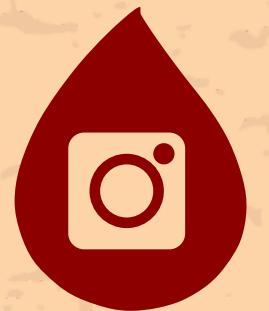
**Direct physical evidence found at the  
crime scene**



I was  
murdered

# Thanks!

Do you have any questions?  
[mudunurutejaswini@gmail.com](mailto:mudunurutejaswini@gmail.com)



thankyou Indian Data Club