

CRIME SCENE

A DATA-DRIVEN INVESTIGATION USING SQL

SQL MURDER MYSTERY



EVERYONE'S A SUSPECT

CAN YOU FIGURE OUT WHO DID WHAT?

October 15, 2025

9 PM onwards

TechNova Inc.

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INTRODUCTION



THIS PROJECT FOCUSES ON SOLVING A FICTIONAL MURDER CASE USING SQL. BY ANALYZING KEYCARD LOGS, PHONE CALL RECORDS, EMPLOYEE ALIBIS, AND PHYSICAL EVIDENCE, THE GOAL IS TO IDENTIFY THE KILLER USING PURE SQL-BASED INVESTIGATION

THIS PROJECT ENHANCES:

- SQL LOGIC
 - QUERY BUILDING
 - CRITICAL THINKING
 - REAL-WORLD DATA ANALYSIS SKILLS
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PROJECT OBJECTIVE

AS A LEAD DATA ANALYST:

- ✓ DETERMINE WHO COMMITTED THE CRIME
- ✓ IDENTIFY WHERE AND WHEN IT HAPPENED
- ✓ PROVE HOW THE EVIDENCE MATCHES THE SUSPECT
- ✓ USE ONLY SQL QUERIES FOR THE INVESTIGATION



CASE BACKGROUND



- ✓ COMPANY: TECHNOVA INC.
- ✓ INCIDENT LOCATION: CEO OFFICE
- ✓ DATE & TIME: 15 OCTOBER 2025, 9 PM
- ✓ CEO FOUND DEAD AT HIS DESK



DATASET OVERVIEW

TABLES USED:


- ✓ **EMPLOYEES – BASIC EMPLOYEE DETAILS**
- ✓ **KEYCARD_LOGS – ROOM ENTRY/EXIT TIMESTAMPS**
- ✓ **CALLS – MOBILE CALL RECORDS**
- ✓ **ALIBIS – CLAIMED WHEREABOUTS**
- ✓ **EVIDENCE – PHYSICAL FINDINGS FROM ROOMS**

EACH DATASET CONTAINS HIDDEN CLUES THAT MUST BE CONNECTED LOGICALLY.




INVESTIGATION APPROACH STEP 1

CRIME SCENE ANALYSIS




```
SELECT * FROM evidence  
WHERE room LIKE "CEO Office"  
ORDER BY found_time;
```

RESULT

- ✓ EVIDENCE FOUND BETWEEN 21:05 - 21:10
 - ✓ CRIME ESTIMATED AT AROUND 9 PM
 - ✓ MULTIPLE CLUES CONFIRM CEO OFFICE AS THE CRIME SCENE:
 - FINGERPRINT ON DESK
 - KEYCARD SWIPE LOGS MISMATCH
- 

INVESTIGATION APPROACH STEP 2

KEYCARD LOG VERIFICATION




```
SELECT k.log_id, k.employee_id, e.name, k.room, k.entry_time,  
k.exit_time  
FROM keycard_logs AS k  
JOIN employees AS e  
ON k.employee_id = e.employee_id  
WHERE k.room LIKE "CEO Office"  
AND  
k.entry_time BETWEEN '2025-10-15 20:30' AND '2025-10-15 21:10';
```

RESULT

- ✓ ONLY ONE PERSON ACCESSED THE CEO OFFICE BETWEEN 20:50-21:00
 - ✓ EMPLOYEE NAME: DAVID KUMAR
- 


INVESTIGATION APPROACH STEP 3

ALIBI CROSS CHECK




```
SELECT a.*, k.room AS actual_location, k.entry_time, k.exit_time
FROM alibis AS a
JOIN keycard_logs AS k
ON a.employee_id = k.employee_id
WHERE a.claimed_location != k.room;
```

RESULT

- ✓ DAVID KUMAR CLAIMED THAT HE WAS IN THE SERVER ROOM AT 20:50 BUT SQL KEYCARD LOGS SHOWS THAT HE WAS INSIDE THE CEO OFFICE AT THE SAME TIME.
 - ✓ THIS PROVIDES: FALSE ALIBI
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INVESTIGATION APPROACH STEP 4


SUSPICIOUS CALL ACTIVITY



```
SELECT c.*, e.name
FROM calls AS c
JOIN employees AS e
ON c.caller_id = e.employee_id
WHERE c.call_time BETWEEN '2025-10-15 20:50' AND '2025-10-15 21:10'
ORDER BY c.call_time ASC;
```

RESULT


CALL RECORDS REVEAL:

- ✓ AT 20:55, DAVID MADE A CALL
 - ✓ DURATION: 45 SECONDS
 - ✓ THIS CALL HAPPENED MINUTES BEFORE THE MURDER
- 


INVESTIGATION APPROACH STEP 5

COMBINED FINDINGS

MOVEMENT + ALIBI + CALLS



```
WITH office_visitors AS (  
  SELECT k.employee_id, k.entry_time, k.exit_time FROM keycard_logs k  
  WHERE k.room = 'CEO Office' AND k.entry_time BETWEEN '2025-10-15 20:30' AND '2025-10-15 21:10' ),  
alibi_claims AS (  
  SELECT a.employee_id, a.claimed_location, a.claim_time FROM alibis a  
  WHERE a.claim_time BETWEEN '2025-10-15 20:30' AND '2025-10-15 21:10' ),  
suspicious_calls AS (  
  SELECT DISTINCT c.caller_id AS employee_id FROM calls c  
  WHERE c.call_time BETWEEN '2025-10-15 20:50' AND '2025-10-15 21:10'  
  UNION  
  SELECT DISTINCT c.receiver_id AS employee_id FROM calls c  
  WHERE c.call_time BETWEEN '2025-10-15 20:50' AND '2025-10-15 21:10')  
SELECT o.employee_id, e.name, o.entry_time, o.exit_time, ac.claimed_location, ac.claim_time,  
CASE  
  WHEN sc.employee_id IS NOT NULL THEN 'Yes' ELSE 'No' END AS suspicious_call  
FROM office_visitors AS o JOIN employees AS e ON o.employee_id = e.employee_id  
JOIN alibi_claims AS ac ON o.employee_id = ac.employee_id  
JOIN suspicious_calls AS sc ON o.employee_id = sc.employee_id  
ORDER BY o.entry_time;
```




INVESTIGATION APPROACH STEP 5

COMBINED FINDINGS

MOVEMENT + ALIBI + CALLS



RESULT

- ✓ ALL SQL FINDINGS POINT TOWARD THE SAME PERSON: “**DAVID KUMAR**”
 - ✓ ACCESS LOGS: PRESENT AT THE CRIME SCENE
 - ✓ ALIBI: LIED ABOUT BEING ELSEWHERE
 - ✓ CALLS: MADE A CALL MOMENTS BEFORE
 - ✓ DEATH EVIDENCE: MATCHES TIMELINE AND MOVEMENT
 - ✓ THUS, ALL CLUES CONVERGE ON ONE INDIVIDUAL
- 

INVESTIGATION APPROACH STEP 6

IDENTIFYING THE KILLER

KILLER NAME REVEAL



```
SELECT e.name AS killer FROM employees AS e
WHERE e.employee_id = (
  SELECT k.employee_id FROM keycard_logs AS k
  WHERE k.room LIKE "CEO Office"
  AND k.entry_time BETWEEN '2025-10-15 20:30' AND '2025-10-15 21:10' )
AND
e.employee_id IN (
  SELECT a.employee_id FROM alibis AS a
  WHERE a.claimed_location != "CEO Office"
  AND a.claim_time BETWEEN '2025-10-15 20:30' AND '2025-10-15 21:10' )
AND e.employee_id IN (
  SELECT c.caller_id FROM calls AS c
  WHERE c.call_time BETWEEN '2025-10-15 20:50' AND '2025-10-15 21:10');
```



CRIME SCENE
CROSS


INVESTIGATION COMPLETED

FINAL CONCLUSION



☐ **KILLER IDENTIFIED: DAVID KUMAR (EMPLOYEE ID 4)**

REASON

- ✓ ENTERED CEO OFFICE RIGHT DURING THE MURDER WINDOW
 - ✓ PROVIDED A FALSE ALIBI
 - ✓ MADE SUSPICIOUS CALLS AT THE EXACT TIME
 - ✓ EVIDENCE FOUND IN THE OFFICE ALIGNS WITH HIS PRESENCE
 - ✓ HE IS THE ONLY PERSON MATCHING ALL CLUES
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SQL MURDER MYSTERY

THANK YOU

THANK YOU FOR REVIEWING THIS PROJECT. HAPPY TO CONNECT AND DISCUSS MORE ANALYTICS PROJECTS

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