

Extraction Report: 09_incident_postmortem

Property	Value
Domain	Incident
Format	.txt
Text length	1,649 chars
Sentences	31

Entities

Spacy NER: 34 entities (420ms)

Entity	Label	Score
INCIDENT POST-MORTEM	ORG	
2 hours 15 minutes	TIME	
10:30 AM - 12:45 PM	TIME	
UTC	ORG	
February 3, 2026	DATE	
API	ORG	
5s	CARDINAL	
2s	CARDINAL	
10:35	CARDINAL	
98%	PERCENT	
30-40%	PERCENT	
10:40	CARDINAL	
09:00	TIME	
75%	PERCENT	
50%	PERCENT	
12:15 — Pool	TIME	
35%	PERCENT	
12:45 —	TIME	
v2.3.0	ORG	
90 minutes	TIME	
45%	PERCENT	
503	CARDINAL	
10:35-11:05	CARDINAL	
12,000	CARDINAL	
approximately 3,200	CARDINAL	
1	CARDINAL	
60%	PERCENT	
SRE	ORG	

Gliner NER: 48 entities (416ms)

Entity	Label	Score
INCIDENT	event_type	0.48
POST-MORTEM	event_type	0.32
Database Connection Pool	system_component	0.56
Incident	event_type	0.52
INC-2026-0142	database_column	0.37
P1	metric	0.42
Duration	temporal_concept	0.78

Entity	Label	Score
2 hours 15 minutes	temporal_concept	0.54
Monitoring	action	0.43
API	protocol	0.51
latency	metric	0.53
p99 > 5s	metric	0.70
threshold	constraint	0.76
Alert	event_type	0.69
On-call engineer	role	0.57
triage	event_type	0.35
database connection pool	system_component	0.94
98% capacity	metric	0.66
30-40%	metric	0.36
batch processing service	system_component	0.84
rollback	action	0.74
batch service	system_component	0.81
35%	metric	0.45
metrics	metric	0.94
green	metric	0.53
stakeholders	role	0.50
batch processing service v2.3.0	system_component	0.65
retry loop	action	0.59
connection pool	system_component	0.89
90 minutes	temporal_concept	0.91

Stanza NER: 37 entities (1105ms)

Entity	Label	Score
2 hours 15 minutes	TIME	
10:30 AM - 12:45 PM	TIME	
UTC	ORG	
February 3, 2026	DATE	
10:30	TIME	
5s	CARDINAL	
2s	CARDINAL	
10:35	TIME	
98%	PERCENT	
30-40%	PERCENT	
10:40	TIME	
09:00	TIME	
10:45	TIME	
10:50	TIME	
Rollback	ORG	
11:05	TIME	
75%	PERCENT	
11:30	TIME	
50%	PERCENT	
12:15	TIME	
35%	PERCENT	
12:45	TIME	
2.3.0	CARDINAL	
90 minutes	TIME	
45%	PERCENT	
API	ORG	

Entity	Label	Score
503	CARDINAL	
10:35-11:05	TIME	
12,000	CARDINAL	
approximately 3,200	CARDINAL	

Flair NER: 3 entities (170ms)

Entity	Label	Score
UTC	MISC	1.00
All-clear	ORG	1.00
SRE	ORG	1.00

Relations (SRL)

25 SRL frames (76ms)

Verb	Agent	Patient	Other
detect	Monitoring	10:32	
fire	Alert	UTC , February 3 , 2026)	

TIMELINE : | | | acknowledge | On - call engineer | | | be | Normal | 30 - 40 % | | | change | Status | | ARGM-ADV=to " Identified " | | deploy | | | ARGM-LOC=at 09:00 | | initiate | Rollback | | | change | Status | | ARG2=to " Mitigating | | begin | Connection pool | draining | | | return | API latency | | | change | Status | | ARG2=to " Resolved | | communicate | | | ARG2=to stakeholders | | open | batch processing service v2.3.0 | database connections | ARGM-LOC=in a retry loop | | fail | | to release connections when retries we | | | release | | connections | ARGM-ADV=when retries were exhausted | | exhaust | retries | | | cause | this | connection pool exhaustion within 90 m | ARG2=Under load | | fail | 45 % of API requests | - Estimated 12,000 failed requests affec | ARG2=with 503 errors, ARGM-TMP=during pe | | affect | | approximately 3,200 users | | | occur | data loss | | | add | | connection pool monitoring with alert | ARGM-LOC=at 60 % threshold (Owner : SRE | | monitor | | | ARG2=with alert | | implement | | connection leak detection in CI pipeline | | require | | load testing for service that manages da | | | manage | that | database connections (Owner : QA , | |

Enriched Extraction (batch-enrich)

Single GPU call: 48 entities, 31 roles, 25 SRL frames (880ms)

Latency Comparison

Method	Latency
Separate (GLiNER 416ms + GLiClass 397ms + SRL 76ms)	889ms
batch-enrich (unified)	880ms
Speedup	1.0x

Per-Sentence Enriched Results (sample)

Sentence	Entities	Role	SRL Frames
INCIDENT POST-MORTEM: Database Connection Pool Exhaustion	2	Postcondition (0.36)	0

Sentence	Entities	Role	SRL Frames
Incident ID: INC-2026-01 UTC, February 3, 2026)	6	Condition (0.20)	0

TIMELINE: 10:30 — Monitoring detecte | 6 | Condition (0.23) | 2 | | On-call engineer acknowledged. | 1 | Effect (0.19) | 1 | | 10:35 — Initial triage: database connection pool at 98% capa | 3 | Condition (0.22) | 0 | | Normal is 30-40%. | 1 | Probability (0.97) | 1 | | 10:40 — Status changed from "Investigating" to "Identified". | 0 | State Change (0.61) | 1 | | Root cause: connection leak in the new batch proces | 3 | Cause (0.89) | 1 | | 10:50 — | 0 | Effect (0.25) | 0 | | Rollback initiated. | 0 | State Change (0.33) | 1 | | Status changed to "Mitigating". | 0 | State Change (0.80) | 1 | | 11:05 — Rollback complete. | 0 | State Change (0.60) | 0 | | Connection pool began draining. | 0 | Effect (0.21) | 1 | | Pool at 75%. | 0 | Effect (0.16) | 0 | | 11:30 — Pool at 50%. | 0 | Time Condition (0.32) | 0 |

Entity Type Distribution (enriched)

Label	Count
metric	12
system_component	9
action	8
event_type	5
role	5
temporal_concept	3
protocol	3
constraint	2
database_column	1

Role Distribution (enriched)

Role	Count
Condition (State)	8
Effect (Event)	7
State Change (Other)	5
Probability (Scientific)	2
Cause (Causal)	2
Requirement (Causal)	2
Postcondition (Programming)	1
Time Condition (Other)	1
Measurement (Scientific)	1
Confidence (Scientific)	1
Preventer (Causal)	1

QLang Sentences

Gliclass: 31 classifications (397ms)

Causal (5)

- [Cause] (0.89) Root cause: connection leak in the new batch processing service deploye...
- [Cause] (0.87) ROOT CAUSE: The batch processing service v2.3.0 opened database connections in a...
- [Preventer] (0.61) PREVENTIVE ACTIONS: 1....
- [Requirement] (0.33) 2. Implement connection leak detection in CI pipeline (Owner: Platform, Due:...
- [Requirement] (0.95) 3. Require load testing for any service that manages database connections (Owner...

Event (7)

- [Effect] (0.19) On-call engineer acknowledged....
- [Effect] (0.25) 10:50 —...
- [Effect] (0.21) Connection pool began draining....
- [Effect] (0.16) Pool at 75%....
- [Effect] (0.24) 12:45 —...
- [Effect] (0.66) Under load, this caused connection pool exhaustion within 90 minutes of deployme...
- [Effect] (0.42) IMPACT:
- 45% of API requests failed with 503 errors during peak impact (10:35-1...

Other (6)

- [State Change] (0.61) 10:40 — Status changed from "Investigating" to "Identified"....
- [State Change] (0.33) Rollback initiated....
- [State Change] (0.80) Status changed to "Mitigating"....
- [State Change] (0.60) 11:05 — Rollback complete....
- [Time Condition] (0.32) 11:30 — Pool at 50%....
- [State Change] (0.79) Status changed to "Resolved"....

Programming (1)

- [Postcondition] (0.36) INCIDENT POST-MORTEM:...

Scientific (4)

- [Probability] (0.97) Normal is 30-40%....
- [Probability] (0.17) 12:15 — Pool at normal levels (35%)....
- [Measurement] (0.77) All metrics green....
- [Confidence] (0.35) All-clear communicated to stakeholders....

State (8)

- [Condition] (0.20) Database Connection Pool Exhaustion Incident ID: INC-2026-0142 Severity: P1 Dura...
- [Condition] (0.23) UTC, February 3, 2026)

TIMELINE: 10:30 — Monitoring detected elevated API laten...

- [Condition] (0.22) 10:35 — Initial triage: database connection pool at 98% capacity....
- [Condition] (0.17) API latency returning to normal....
- [Condition] (0.22) - No data loss occurred....
- [Condition] (0.56) Add connection pool monitoring with alert at 60% threshold (Owner: SRE, Due: Feb...
- [Condition] (0.20) Feb 17)....
- [Condition] (0.20) Feb 24)....

Qualtron: 7 classifications (11759ms)

Causal (1)

- [Requirement] (0.95) PREVENTIVE ACTIONS:...

Event (2)

- [Event] (0.95) INCIDENT POST-MORTEM:...
- [Event] (0.95) All-clear communicated to stakeholders....

Scientific (1)

- [Measurement] (0.95) Normal is 30-40%....

State (2)

- [StateChange] (0.95) Status changed to "Mitigating"....
- [StateChange] (0.95) API latency returning to normal....

Temporal (1)

- [TimeCondition] (0.90) Feb 24)....

QHG Process Models

FSM (1684ms)

Could not parse structured output

None

BPMN (2031ms)

Could not parse structured output

None

DFG (1919ms)

Could not parse structured output

None

KnowledgeState (5393ms)

Could not parse structured output

None

CNL / QNR2 Rules

0 rule patterns detected

Heuristic Facts & Rules

8 facts, 1 rules

Facts (sample)

- Duration: 2 hours 15 minutes (10:30 AM - 12:45 PM UTC, February 3, 2026)...
- 10:35 — Initial triage: database connection pool at 98% capacity. Normal is 30-40%....
- 11:05 — Rollback complete. Connection pool began draining. Pool at 75%....
- 11:30 — Pool at 50%. API latency returning to normal....
- 12:15 — Pool at normal levels (35%). All metrics green....
- within 90 minutes of deployment....
- – 45% of API requests failed with 503 errors during peak impact (10:35-11:05)....
- 1. Add connection pool monitoring with alert at 60% threshold (Owner: SRE, Due: Feb 10)....

Rules (sample)

- [conditional] release connections when retries were exhausted. Under load, this caused connection pool exhaustion...

Topics (Gensim LDA)

- **Topic 0:** {'word': 'incident', 'weight': 0.0632}, {'word': 'database', 'weight': 0.0345}, {'word': 'exhaustion', 'weight': 0.0345}, {'word': 'minutes', 'weight': 0.0345}, {'word': 'february', 'weight': 0.0345}, {'word': 'post', 'weight': 0.0345}, {'word': 'severity', 'weight': 0.0345}, {'word': 'hours', 'weight': 0.0345}
- **Topic 1:** {'word': 'incident', 'weight': 0.0101}, {'word': 'connection', 'weight': 0.0101}, {'word': 'database', 'weight': 0.0101}, {'word': 'mortem', 'weight': 0.0101}, {'word': 'pool', 'weight': 0.0101}, {'word': 'minutes', 'weight': 0.0101}, {'word': 'due', 'weight': 0.0101}, {'word': 'inc', 'weight': 0.0101}

- **Topic 2:** {'word': 'pool', 'weight': 0.0606}, {'word': 'connection', 'weight': 0.0373}, {'word': 'changed', 'weight': 0.0373}, {'word': 'rollback', 'weight': 0.0373}, {'word': 'normal', 'weight': 0.0373}, {'word': 'status', 'weight': 0.0373}, {'word': 'api', 'weight': 0.0256}, {'word': 'service', 'weight': 0.0256}
- **Topic 3:** {'word': 'due', 'weight': 0.0606}, {'word': 'owner', 'weight': 0.0606}, {'word': 'feb', 'weight': 0.0606}, {'word': 'connection', 'weight': 0.0417}, {'word': 'load', 'weight': 0.0227}, {'word': 'database', 'weight': 0.0227}, {'word': 'leak', 'weight': 0.0227}, {'word': 'any', 'weight': 0.0227}
- **Topic 4:** {'word': 'failed', 'weight': 0.0535}, {'word': 'connections', 'weight': 0.0368}, {'word': 'impact', 'weight': 0.0368}, {'word': 'requests', 'weight': 0.0368}, {'word': 'load', 'weight': 0.0201}, {'word': 'occurred', 'weight': 0.0201}, {'word': 'errors', 'weight': 0.0201}, {'word': 'data', 'weight': 0.0201}

Summary (Sumy LexRank)

10:35 — Initial triage: database connection pool at 98% capacity. Pool at 75%. 11:30 — Pool at 50%. Under load, this caused connection pool exhaustion within 90 minutes of deployment. Add connection pool monitoring with alert at 60% threshold (Owner: SRE, Due: Feb 10).