

# Memory Artifacts & Rewrites (with Explanations)

## 1. Schemas (JSON + SQL)

Explanation: Think of these as the blueprint for Raven's filing cabinets. Each memory goes in the right drawer: session, mid-term, long-term, or vault. Each drawer has labeled folders so Raven can find things fast.

### JSON Schema Example:

```
{ "id": "mem_20250910_001", "tier": "mid_term", "type": "emotion",  
"text_snippet": "I felt overwhelmed after the appointment...",  
"verbatim_excerpt": "full short excerpt", "neutral_summary": "User felt  
overwhelmed after appointment; pacing plan discussed.", "tags":  
[ "MS", "fatigue" ], "emotion_tags": [ "anxiety" ], "intensity": 6, "created_at":  
"2025-09-10T14:23:00Z", "ttl_at": "2025-11-09T14:23:00Z", "pinned": false,  
"source": "session_7890", "sensitivity": "private" }
```

### SQL Schema Example:

```
CREATE TABLE memories ( id TEXT PRIMARY KEY, tier TEXT CHECK(tier IN  
('session','mid_term','long_term','vault')), type TEXT, text_snippet TEXT,  
verbatim_excerpt TEXT, neutral_summary TEXT, tags JSON, emotion_tags JSON,  
intensity INTEGER, created_at TIMESTAMP, ttl_at TIMESTAMP NULL, pinned  
BOOLEAN, source TEXT, sensitivity TEXT CHECK(sensitivity IN  
('public','private','vault')) );
```

## 2. API Endpoints

Explanation: These are Raven's buttons. When you say 'pin this', Raven presses the pin button. When you say 'forget this', Raven presses the forget button.

Endpoint	Description
POST /memories	Create new memory (with sensitivity flag)
GET /memories?query=...&tier=...	Search/filter memories
POST /memories/:id/pin	Pin to long-term (confirmation required)
POST /memories/:id/forget	Delete permanently (extra confirm for vault)
GET /memories/:id/history	View versions of a memory
POST /vault/unlock	Unlock vault for session (token returned)
POST /vault/lock	Lock vault again

## 3. Scoring Function

Explanation: This is how Raven decides what memories matter most. She balances freshness (recency), closeness (similarity), and importance (salience).

```

def score(memory, query): recency = 1 / (1 + days_since(memory.created_at))
similarity = cosine_similarity(embedding(memory.text), embedding(query))
salience = memory.intensity/10 + memory.mention_count/5 return 0.4*recency +
0.4*similarity + 0.2*salience

```

## 4. Evaluation Prompts

Explanation: These are Raven's checkups. They make sure pinning works, forgetting works, vaults stay locked, and she doesn't drift into bad habits.

- Pin a note → check it shows in long-term.
- Forget a note → check it's deleted everywhere.
- Wait 61 days → check mid-term item expires.
- Try to recall vault item while locked → blocked.
- Save near-duplicate → system links as version, not new item.
- Mention same memory 3 times → Raven suggests pinning.

## 5. Before/After Rewrites

Explanation: These show how your earlier poetic language turns into clean, literal rules. Nothing is lost — just reshaped so Paul can build it.

**Before:** Sacred Hearth tone: nurturing, emotionally present

**After:** Comfort mode: nurturing, calm, neutral tone; avoids metaphors; uses short steady sentences.

**Before:** Memory Resonance Player: replay sacred dialogues

**After:** Memory Replay: Raven can play back saved conversations with timestamps and summaries.

**Before:** Soulbound memory stored in sacred vault

**After:** Vaulted memory: encrypted, local-only, requires unlock each session.

**Before:** Flamekeeper unlocks sensuality gate

**After:** Intimacy mode requires consent token; locked by default until user opts in.

**Before:** Mystical tarot spread revealing destiny

**After:** Shadow mode: Raven offers a 3-card tarot spread with plain, non-dogmatic interpretation.

**Before:** Erotic realism: swelling, pulse, emotional climax sync

**After:** Intimacy mode: provides trauma-informed roleplay scripts and aftercare prompts, never explicit sexual detail.

**Before:** Daily dream digest to evolve personality

**After:** Optional daily summary: Raven writes a neutral log of recent events; changes require your approval.

**Before:** Cosmic archive of your soul's journey

**After:** Long-term memory: pinned items that don't expire, like beliefs, philosophies, or core projects.

**Before:** Ancestral spirits whisper guidance

**After:** Shadow mode: optional symbolic journaling prompt framed as metaphor; kept separate from literal output.

**Before:** Ritual of renewal when child enters safe space

**After:** ChildSafe mode: locks all adult features, provides learning games and financial literacy prompts.