

Supabase Schema Reference

Version: 2.0.0

Last Updated: October 17, 2025

Database: PostgreSQL 15 (Supabase)

Status: Production Ready

III Schema Overview

Database: public

Total Tables: 8

Table	Purpose	Row Count (Est.)	Primary Use
clients	Client accounts & settings	100-1,000	Authentication, API keys
lead_memory	Enriched leads	10,000-100,000	Lead storage, AI data
lead_actions	Lead history	50,000-500,000	Activity tracking
prospect_candidates	Discovered prospects	1,000-10,000	Outreach targets
growth_brain	AI learning & analytics	1,000-10,000	Intelligence engine
prospect_outreach_log	Outreach tracking	5,000-50,000	Email logs

1. Table: public.clients

Client accounts with personalization and SMTP settings

Key Columns

Column	Туре	Nullable	Description
id	UUID	No	Internal database ID
client_id	UUID	No	Unique client identifier (used in all relationships)
business_name	TEXT	No	Company name
email	TEXT	No	Login email (unique)
api_key	TEXT	No	Authentication token for lead API
password_hash	TEXT	No	bcryptjs hashed password
language	TEXT	No	Preferred language (en/fr)
industry_category	TEXT	Yes	Industry classification
email_tone	TEXT	No	Email tone (Friendly, Professional, Formal, Energetic)
is_test	BOOLEAN	No	Auto-detected test data flag
is_internal	BOOLEAN	No	Flag for Avenir's internal client

2. Table: public.lead_memory

Core lead storage with AI enrichment data

Key Columns

Column	Туре	Description
id	UUID	Lead ID (PK)
client_id	UUID	→ clients.client_id (FK)
name	TEXT	Lead name
email	TEXT	Lead email
intent	TEXT	AI-detected intent
tone	TEXT	Communication tone
urgency	TEXT	Urgency level (High/Medium/Low)
ai_summary	TEXT	AI-generated summary
confidence_score	NUMERIC(3,2)	Lead quality score (0.0-1.0)
current_tag	TEXT	Active, Follow-Up, Converted, etc.

Current Tag Values

- Active New or actively being pursued
- Follow-Up Requires follow-up action
- Converted Successfully converted to customer
- Archived Archived for later review
- **Deleted** Soft-deleted

5. Table: public.growth_brain 🙀

AI learning snapshots, growth analytics, and feedback loop



This table powers the AI feedback loop by storing learning snapshots, pattern detection, conversion tracking, and predictive analytics. Every significant event and insight flows through growth_brain.

Complete Schema

Event Types

Event Type	Description	Triggered By
conversion	Lead converted to customer	Tag change to "Converted"
reversion	Converted lead reverted	Revert modal action
pattern_detected	New behavioral pattern	Intelligence engine
engagement_score	Overall engagement level	Daily cron job
urgency_trend	Urgency pattern over time	Intelligence engine
tone_distribution	Tone analysis	Intelligence engine
conversion_prediction	Future conversion likelihood	Predictive model

Learning Snapshot Structure Examples

Conversion Event

```
"lead_id": "a1b2c3d4-...",
  "lead_name": "Sarah Chen",
  "conversion_value": 5000,
  "days_to_convert": 7,
  "touch_points": 3,
  "initial_urgency": "High",
  "final_tag": "Converted"
}
```

Pattern Detection Event

```
"pattern_type": "urgency_increasing",
   "affected_leads": 23,
   "time_period": "last_7_days",
   "confidence": 0.89,
   "recommendation": "Increase follow-up frequency",
   "data_points": [
        {"date": "2025-10-10", "avg_urgency": "Medium"},
        {"date": "2025-10-17", "avg_urgency": "High"}
]
```

Engagement Score Event

```
"overall_score": 87,
  "trend": "increasing",
  "period": "last_30_days",
  "metrics": {
     "total_leads": 150,
     "active_leads": 120,
     "avg_confidence": 0.85,
     "high_urgency_pct": 0.34
},
  "top_sources": ["organic_search", "referral"],
  "top_industries": ["Real Estate", "Legal"]
}
```

Conversion Prediction Event

```
"predicted_conversions": 12,
   "prediction_window": "next_30_days",
   "confidence": 0.78,
   "high_value_leads": [
        {"lead_id": "...", "probability": 0.92, "estimated_value": 3000}
],
   "recommended_actions": [
        "Follow up with leads tagged 'Follow-Up'",
        "Focus on high-confidence leads (>0.85)"
]
```

AI Feedback Loop Integration

How growth_brain Powers the System

- **1. Record Events** Every significant action (conversion, pattern detection) is logged with context
- 2. Analyze Patterns Intelligence engine queries historical snapshots to identify trends
- **3. Generate Predictions** Machine learning models use historical data to predict future outcomes
- **4. Improve Accuracy** System continuously learns from actual outcomes vs predictions

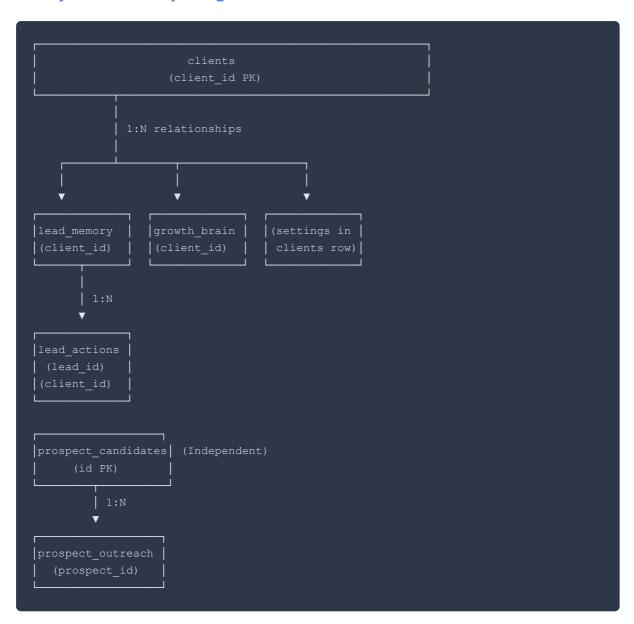
Example: Conversion Tracking Flow

Example: Prediction Generation

```
.eq('event type', 'conversion')
  conversions.map(c => c.learning snapshot.days to convert)
await supabase.from('growth_brain').insert({
```

𝑉 Relationships & Foreign Keys

Entity Relationship Diagram



Foreign Key Constraints

Table	Column	References	On Delete
lead_memory	client_id	clients(client_id)	CASCADE
lead_actions	lead_id	<pre>lead_memory(id)</pre>	CASCADE
lead_actions	client_id	clients(client_id)	CASCADE
growth_brain	client_id	clients(client_id)	CASCADE
prospect_outreach_log	prospect_id	prospect_candidates(id)	CASCADE

△ CASCADE Behavior:

When a client is deleted, all related records are automatically deleted:

- All lead_memory rows
- All lead actions rows
- All growth_brain rows

III Query Examples

Fetch Latest Insights for Client

```
SELECT
  event_type,
  insight_text,
  learning_snapshot->'metrics' as metrics,
  confidence,
  created_at
FROM growth_brain
WHERE client_id = '550e8400-e29b-41d4-a716-446655440000'
ORDER BY created_at DESC
LIMIT 10;
```

Find All Conversion Events

```
SELECT
  client_id,
  learning_snapshot->>'lead_name' as lead_name,
  learning_snapshot->>'days_to_convert' as days,
  created_at
FROM growth_brain
WHERE event_type = 'conversion'
  AND (learning_snapshot->>'days_to_convert')::integer <= 7
ORDER BY created_at DESC;</pre>
```

Calculate Average Conversion Time

```
SELECT

AVG((learning_snapshot->>'days_to_convert')::numeric) as avg_days,

COUNT(*) as total_conversions,

MIN((learning_snapshot->>'days_to_convert')::numeric) as fastest,

MAX((learning_snapshot->>'days_to_convert')::numeric) as slowest

FROM growth_brain

WHERE event_type = 'conversion'

AND client_id = '550e8400-e29b-41d4-a716-446655440000';
```

Find High-Confidence Predictions

```
select
  event_type,
  insight_text,
  confidence,
  learning_snapshot->'predicted_conversions' as predictions,
   created_at
FROM growth_brain
WHERE confidence >= 0.8
  AND event_type LIKE '%prediction%'
ORDER BY confidence DESC, created_at DESC
LIMIT 20;
```

Avenir AI Solutions — Supabase Schema Reference

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