



Referência de Schema do Banco de Dados

Tabelas Existentes (Atual)

1. profiles

```
CREATE TABLE profiles (
    id UUID PRIMARY KEY REFERENCES auth.users(id),
    email TEXT,
    name TEXT,
    avatar_url TEXT,
    created_at TIMESTAMPTZ DEFAULT now(),
    updated_at TIMESTAMPTZ DEFAULT now()
);
```

2. user_settings

```
CREATE TABLE user_settings (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id),
    bot_status TEXT CHECK (bot_status IN ('stopped', 'running', 'paused')),
    paper_mode BOOLEAN DEFAULT true,
    balance NUMERIC DEFAULT 10000,
    risk_per_trade NUMERIC DEFAULT 2.0,
    leverage INTEGER,
    max_positions INTEGER,
    profit_target_percent NUMERIC,
    active_strategies TEXT[],
    trading_strategy TEXT,
    single_position_mode BOOLEAN,
    created_at TIMESTAMPTZ DEFAULT now(),
    updated_at TIMESTAMPTZ DEFAULT now()
);
```

3. active_positions

```
CREATE TABLE active_positions (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id),
    asset TEXT NOT NULL,
    direction TEXT NOT NULL CHECK (direction IN ('LONG', 'SHORT')),
    entry_price NUMERIC NOT NULL,
    stop_loss NUMERIC NOT NULL,
    take_profit NUMERIC NOT NULL,
    risk_reward NUMERIC NOT NULL,
    current_price NUMERIC,
    current_pnl NUMERIC,
    projected_profit NUMERIC NOT NULL,
    session TEXT,
    agents JSONB, -- → Campo para armazenar info do Vision Agent
    opened_at TIMESTAMPTZ DEFAULT now(),
    updated_at TIMESTAMPTZ DEFAULT now()
);
```

4. operations

```
CREATE TABLE operations (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id),
    asset TEXT NOT NULL,
    direction TEXT NOT NULL,
    entry_price NUMERIC NOT NULL,
    exit_price NUMERIC NOT NULL,
    stop_loss NUMERIC NOT NULL,
    take_profit NUMERIC NOT NULL,
    risk_reward NUMERIC NOT NULL,
    pnl NUMERIC NOT NULL,
    profit_percent NUMERIC NOT NULL,
    result TEXT CHECK (result IN ('WIN', 'LOSS')),
    entry_time TIMESTAMPTZ NOT NULL,
    exit_time TIMESTAMPTZ NOT NULL,
    session TEXT,
    agents JSONB, -- 🤝 Campo para armazenar info do Vision Agent
    created_at TIMESTAMPTZ DEFAULT now()
);
```

5. pending_signals

```
CREATE TABLE pending_signals (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id),
    asset TEXT NOT NULL,
    signal_type TEXT CHECK (signal_type IN ('ENTER', 'EXIT')),
    direction TEXT CHECK (direction IN ('LONG', 'SHORT')),
    entry_price NUMERIC,
    stop_loss NUMERIC,
    take_profit NUMERIC,
    risk_reward NUMERIC,
    confidence NUMERIC, -- 🤝 Confidence do modelo ML
    signal_data JSONB, -- 🤝 Dados extras (video_id, model_version, etc)
    status TEXT CHECK (status IN ('pending', 'executed', 'cancelled')),
    created_at TIMESTAMPTZ DEFAULT now(),
    executed_at TIMESTAMPTZ
);
```

6. agent_logs

```
CREATE TABLE agent_logs (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id),
    agent_name TEXT NOT NULL, -- 🤝 'vision_trading_agent'
    action TEXT NOT NULL, -- 🤝 'signal_enter', 'signal_exit', 'video_processed'
    status TEXT NOT NULL, -- 🤝 'success', 'failed', 'pending'
    details JSONB, -- 🤝 Informações detalhadas
    created_at TIMESTAMPTZ DEFAULT now()
);
```

7. user_api_credentials

```
CREATE TABLE user_api_credentials (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id),
    broker_type TEXT CHECK (broker_type IN ('binance', 'forex')),
    encrypted_api_key TEXT,
    encrypted_api_secret TEXT,
    broker_name TEXT,
    is_active BOOLEAN DEFAULT true,
    last_tested_at TIMESTAMPTZ,
    test_status TEXT CHECK (test_status IN ('success', 'failed', 'pending')),
    created_at TIMESTAMPTZ DEFAULT now(),
    updated_at TIMESTAMPTZ DEFAULT now(),
    UNIQUE(user_id, broker_type)
);
```

Tabelas a Criar (Vision Agent)

8. vision_agent_videos ✨ NOVA

```
CREATE TABLE vision_agent_videos (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id) ON DELETE CASCADE NOT NULL,
    video_id TEXT NOT NULL,          -- ID do YouTube
    youtube_url TEXT NOT NULL,
    title TEXT,
    channel TEXT,
    status TEXT CHECK (status IN ('pending', 'processing', 'completed', 'failed')) DEFAULT 'pending',
    total_frames INTEGER,
    processed_frames INTEGER DEFAULT 0,
    signals_generated INTEGER DEFAULT 0,
    model_version TEXT,
    processing_started_at TIMESTAMPTZ,
    processing_completed_at TIMESTAMPTZ,
    error_message TEXT,
    created_at TIMESTAMPTZ DEFAULT now(),
    updated_at TIMESTAMPTZ DEFAULT now()
);

CREATE INDEX idx_vision_agent_videos_user_id ON vision_agent_videos(user_id);
CREATE INDEX idx_vision_agent_videos_status ON vision_agent_videos(status);
```

9. vision_agent_settings ✨ NOVA

```
CREATE TABLE vision_agent_settings (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES auth.users(id) ON DELETE CASCADE NOT NULL UNIQUE,
    enabled BOOLEAN DEFAULT false,
    mode TEXT CHECK (mode IN ('SHADOW', 'PAPER', 'LIVE')) DEFAULT 'SHADOW',
    confidence_threshold NUMERIC(3,2) DEFAULT 0.70, -- 0.00 a 1.00
    youtube_playlist_url TEXT,
    model_version TEXT DEFAULT 'model_seq_v20251125.h5',
    auto_process_new_videos BOOLEAN DEFAULT false,
    max_signals_per_day INTEGER DEFAULT 50,
    cooldown_seconds INTEGER DEFAULT 300, -- 5 minutos entre sinais do mesmo asset
    created_at TIMESTAMPTZ DEFAULT now(),
    updated_at TIMESTAMPTZ DEFAULT now()
);
```

Estrutura JSON dos Campos JSONB

Campo agents em active_positions e operations

```
{
  "source": "vision_trading_agent",
  "video_id": "dQw4w9WgXcQ",
  "video_title": "Como identificar Order Block em WIN",
  "confidence": 0.82,
  "model_version": "model_seq_v20251125.h5",
  "frame_index": 2400,
  "timestamp": "2025-11-25T12:45:32Z",
  "features": {
    "hands_detected": 1,
    "draw_count": 2,
    "ocr_text": "Entry 134.50",
    "arrows_detected": 1
  }
}
```

Campo signal_data em pending_signals

```
{
  "source": "vision_trading_agent",
  "video_id": "dQw4w9WgXcQ",
  "model_version": "model_seq_v20251125.h5",
  "features_summary": {
    "hands": 1,
    "draw_count": 2,
    "ocr": "1.3450"
  },
  "raw_confidence": {
    "enter": 0.82,
    "exit": 0.12,
    "ignore": 0.06
  }
}
```

Campo details em agent_logs

```
{
  "signal_id": "uuid-do-sinal",
  "video_id": "dQw4w9WgXcQ",
  "confidence": 0.82,
  "action_taken": "signal_sent",
  "execution_time_ms": 150,
  "model_version": "model_seq_v20251125.h5"
}
```

Queries Úteis

Verificar últimos sinais do Vision Agent

```
SELECT
  ps.id,
  ps.asset,
  ps.signal_type,
  ps.confidence,
  ps.signal_data->>'video_id' as video_id,
  ps.status,
  ps.created_at
FROM pending_signals ps
WHERE ps.signal_data->>'source' = 'vision_trading_agent'
    AND ps.user_id = 'USER_UUID'
ORDER BY ps.created_at DESC
LIMIT 10;
```

Verificar vídeos processados

```
SELECT
  video_id,
  title,
  status,
  signals_generated,
  processing_completed_at
FROM vision_agent_videos
WHERE user_id = 'USER_UUID'
ORDER BY created_at DESC;
```

Verificar posições originadas pelo Vision Agent

```
SELECT
  ap.asset,
  ap.direction,
  ap.entry_price,
  ap.current_pnl,
  ap.agents->>'confidence' as confidence,
  ap.agents->>'video_id' as video_id
FROM active_positions ap
WHERE ap.agents->>'source' = 'vision_trading_agent'
    AND ap.user_id = 'USER_UUID';
```

Estatísticas de performance do Vision Agent

```

SELECT
    COUNT(*) as total_trades,
    SUM(CASE WHEN result = 'WIN' THEN 1 ELSE 0 END) as wins,
    SUM(CASE WHEN result = 'LOSS' THEN 1 ELSE 0 END) as losses,
    ROUND(AVG(pnl), 2) as avg_pnl,
    ROUND(SUM(pnl), 2) as total_pnl,
    ROUND(AVG(agents->>'confidence' AS NUMERIC)), 2) as avg_confidence
FROM operations
WHERE agents->>'source' = 'vision_trading_agent'
    AND user_id = 'USER_UUID'
    AND created_at >= CURRENT_DATE - INTERVAL '30 days';

```

Edge Functions

Existentes

1. analyze-multi-timeframe

- Análise SMC em múltiplos timeframes
- Detecta FVG, OB, Liquidity Sweeps

2. execute-order

- Executa ordem de trading
- Validações de risk management
- Suporta paper_mode e modo real

3. close-position

- Fecha posição manualmente
- Registra em operations

4. monitor-positions

- Monitora posições abertas
- Atualiza PnL em tempo real
- Fecha quando TP/SL atingido

5. sync-real-balance

- Sincroniza saldo real da corretora

6. test-broker-connection

- Testa conexão com Binance/Forex

7. encrypt-api-credentials

- Criptografa credenciais da API

A Criar

1. vision-agent-signal ✨ NOVA

- Recebe sinais do Vision Agent
- Valida e armazena em pending_signals
- Triggera execute-order se necessário
- Registra logs

RLS (Row Level Security)

Todas as tabelas têm RLS habilitado com as seguintes policies:

```
-- Exemplo para vision_agent_videos
CREATE POLICY "Users can view their own videos"
ON vision_agent_videos FOR SELECT
TO authenticated
USING (auth.uid() = user_id);

CREATE POLICY "Users can insert their own videos"
ON vision_agent_videos FOR INSERT
TO authenticated
WITH CHECK (auth.uid() = user_id);

CREATE POLICY "Users can update their own videos"
ON vision_agent_videos FOR UPDATE
TO authenticated
USING (auth.uid() = user_id);

CREATE POLICY "Users can delete their own videos"
ON vision_agent_videos FOR DELETE
TO authenticated
USING (auth.uid() = user_id);
```

Documento: Referência de Schema

Versão: 1.0

Data: 25 de Novembro de 2025