



# 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(CAST(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)

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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);
```

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