

-- 1. Enable PostGIS for location-based search (Essential for "Hyperlocal")

```
CREATE EXTENSION IF NOT EXISTS postgis;
```

-- 2. Create Custom Enums (Restricts data to specific values)

```
CREATE TYPE user_role AS ENUM ('customer', 'provider', 'admin');
```

```
CREATE TYPE booking_status AS ENUM ('pending', 'confirmed', 'rescheduled', 'completed', 'cancelled');
```

-- 3. Create Categories Table

```
CREATE TABLE categories (  
  id SERIAL PRIMARY KEY,  
  name VARCHAR(100) NOT NULL UNIQUE,  
  icon_url TEXT,  
  created_at TIMESTAMPTZ DEFAULT NOW()  
);
```

-- 4. Create Profiles/Users Table

-- (Note: If using Supabase Auth, this table typically links to auth.users)

```
CREATE TABLE profiles (  
  id UUID PRIMARY KEY DEFAULT gen_random_uuid(),  
  full_name TEXT NOT NULL,  
  email TEXT UNIQUE NOT NULL,  
  phone TEXT,  
  role user_role DEFAULT 'customer',  
  created_at TIMESTAMPTZ DEFAULT NOW()  
);
```

-- 5. Create Provider Profiles Table

```
CREATE TABLE provider_profiles (  
  id UUID PRIMARY KEY DEFAULT gen_random_uuid(),  
  user_id UUID REFERENCES profiles(id) ON DELETE CASCADE UNIQUE,  
  category_id INT REFERENCES categories(id) ON DELETE SET NULL,  
  bio TEXT,  
  base_price DECIMAL(10, 2),  
  is_verified BOOLEAN DEFAULT false,  
  avg_rating FLOAT DEFAULT 0,  
  -- Geospatial location column (Latitude and Longitude)  
  location GEOGRAPHY(POINT, 4326),  
  updated_at TIMESTAMPTZ DEFAULT NOW()  
);
```

-- 6. Create Provider Availability Table

```
CREATE TABLE provider_availability (  

```

```

id SERIAL PRIMARY KEY,
provider_id UUID REFERENCES provider_profiles(id) ON DELETE CASCADE,
day_of_week INT CHECK (day_of_week BETWEEN 0 AND 6), -- 0 = Sunday
start_time TIME NOT NULL,
end_time TIME NOT NULL,
UNIQUE(provider_id, day_of_week)
);

-- 7. Create Bookings Table
CREATE TABLE bookings (
  id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
  customer_id UUID REFERENCES profiles(id),
  provider_id UUID REFERENCES provider_profiles(id),
  status booking_status DEFAULT 'pending',
  scheduled_for TIMESTAMPTZ NOT NULL,
  service_address TEXT NOT NULL,
  total_price DECIMAL(10, 2),
  notes TEXT,
  created_at TIMESTAMPTZ DEFAULT NOW()
);

-- 8. Create Reviews Table
CREATE TABLE reviews (
  id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
  booking_id UUID REFERENCES bookings(id) ON DELETE CASCADE UNIQUE,
  customer_id UUID REFERENCES profiles(id),
  provider_id UUID REFERENCES provider_profiles(id),
  rating INT CHECK (rating >= 1 AND rating <= 5),
  comment TEXT,
  created_at TIMESTAMPTZ DEFAULT NOW()
);

-- 9. Useful Index for Proximity Search
-- This index makes searching for nearby Karigars extremely fast
CREATE INDEX provider_location_idx ON provider_profiles USING GIST (location);

-- 10. Sample Categories Data
INSERT INTO categories (name) VALUES
('Plumber'), ('Electrician'), ('Tutor'), ('House Cleaning'), ('Technician');

```