

Motion Forward Physical Therapy

Database schema **physical_therapy_clinic** · postgresql · 8 tables · 4,404 rows

About the business

Motion Forward Physical Therapy is an outpatient rehabilitation provider operating five clinics across a metropolitan region. The company offers physical therapy services covering injury recovery, post-surgical rehabilitation, chronic pain management, and specialty programs for populations such as pediatric, geriatric, and neurological patients. Patients arrive either through a physician referral or by self-referring directly to a clinic. The company bills a mix of private health insurers, Medicare, Medicaid, Workers Compensation programs, and VA Benefits to collect payment for the services it delivers.

How the business operates

When a new patient arrives, their demographic information and insurance coverage are recorded, and a therapist conducts an initial evaluation that results in a formal treatment plan specifying a diagnosis and a maximum number of authorized visits. From that point forward, the patient schedules individual appointments against that treatment plan, each visit handled by a licensed therapist at one of the five clinic locations. After a visit is marked complete, the billing staff submits an insurance claim to the appropriate payer on the patient's behalf. The claim then moves through the insurer's review process and may be approved, partially approved, denied, or appealed, with the final approved dollar amount recorded so management can monitor how much revenue is actually collected versus what was billed.

What each table holds

clinics (12 rows)

One row per physical clinic location that Motion Forward operates. This table serves as the master list of locations that therapists are assigned to and where appointments are held.

therapists (260 rows)

One row per licensed physical therapist currently or previously employed by Motion Forward. Each therapist is based at a specific clinic and holds one of six recognized specialties that determines the types of cases they are best suited to treat.

patients (260 rows)

One row per person who has registered as a patient at any Motion Forward clinic, regardless of how many treatments or visits they have had.

insurers (12 rows)

One row per insurance company or government payer program whose coverage Motion Forward accepts. The reimbursement rate captures the negotiated percentage of the billed amount that this

payer typically covers.

patient_insurers (1,200 rows)

One row per insurance policy held by a patient. Because a patient may carry both a primary and a secondary insurance plan, a single patient can have more than one row here. This table records the policy number, when coverage began, and which policy is the primary one used for billing.

treatment_plans (260 rows)

One row per course of treatment prescribed for a patient following their evaluation. A treatment plan is tied to a specific diagnosis, assigns a lead therapist responsible for the patient's care, and caps the number of visits the insurer has authorized. As care progresses the plan moves through statuses such as Active, Completed, or On Hold.

appointments (1,200 rows)

One row per visit that has been scheduled or carried out at a clinic. Each appointment is linked to the governing treatment plan, records which therapist actually saw the patient and at which location, and captures how long the session ran and how much was billed for it.

insurance_claims (1,200 rows)

One row per claim submitted to an insurer seeking reimbursement for a completed appointment. This table tracks the full lifecycle of a claim from initial submission through approval or denial, and records the amount the insurer actually agreed to pay as well as the reason if a claim was rejected.

How the tables relate

Each therapist is assigned to one clinic, and every appointment takes place at a specific clinic with a specific therapist, tying individual visits back to both the staff and location involved. A patient's care is organized through treatment plans — each plan belongs to one patient and designates one lead therapist — and appointments are then scheduled against that plan so the clinic can track progress toward the authorized visit limit. On the billing side, each completed appointment can generate an insurance claim directed to one of the insurers listed on the patient's coverage record, and the outcome of that claim — including any denial reason and the amount actually approved — is recorded separately so the business can reconcile what it billed against what it collected.

- Each therapists row belongs to one clinics, through `therapists.clinic_id` → `clinics.clinic_id`.
- Each patients row belongs to one clinics, through `patients.referring_clinic_id` → `clinics.clinic_id`.
- `patient_insurers` resolves a many-to-many relationship: each row pairs one patients with one other party via `patient_insurers.patient_id`.
- `patient_insurers` resolves a many-to-many relationship: each row pairs one insurers with one other party via `patient_insurers.insurer_id`.
- Each `treatment_plans` row belongs to one patients, through `treatment_plans.patient_id` → `patients.patient_id`.
- Each `treatment_plans` row belongs to one therapists, through `treatment_plans.therapist_id` → `therapists.therapist_id`.

- Each appointments row belongs to one treatment_plans, through appointments.treatment_plan_id → treatment_plans.treatment_plan_id.
- Each appointments row belongs to one therapists, through appointments.therapist_id → therapists.therapist_id.
- Each appointments row belongs to one clinics, through appointments.clinic_id → clinics.clinic_id.
- Each insurance_claims row belongs to one appointments, through insurance_claims.appointment_id → appointments.appointment_id.
- Each insurance_claims row belongs to one insurers, through insurance_claims.insurer_id → insurers.insurer_id.

Data dictionary

Table	Column	Type	Meaning	Example
clinics	clinic_id	INTEGER	A unique identifier assigned to each clinic location, used throughout the database to connect therapists, patients, and appointments back to the physical site.	1
clinics	clinic_name	VARCHAR(120)	Human-readable name of the clinic location, e.g. 'Northside Sports Rehab'.	Limited listing
clinics	street	VARCHAR(120)	Street address of the clinic.	7014 Vineyard Pkwy
clinics	city	VARCHAR(60)	City where the clinic is located.	Evanston
clinics	state	VARCHAR(2)	State abbreviation.	PA
clinics	postal_code	VARCHAR(10)	ZIP code of the clinic.	47140
therapists	therapist_id	INTEGER	Surrogate primary key for the therapist.	1
therapists	first_name	VARCHAR(50)	Therapist's given name.	Gideon
therapists	last_name	VARCHAR(50)	Therapist's family name.	Abara
therapists	specialty	VARCHAR(60)	The clinical area in which the therapist is licensed and primarily practices — one of Orthopedic, Neurological, Pediatric, Sports Medicine, Geriatric, or Cardiopulmonary.	Orthopedic
therapists	clinic_id	INTEGER	The clinic where this therapist is primarily based and sees patients.	4
therapists	hire_date	DATE	The date the therapist began employment with Motion Forward.	2022-07-12
patients	patient_id	INTEGER	Surrogate primary key for the patient.	1
patients	first_name	VARCHAR(50)	Patient's given name.	Rosa
patients	last_name	VARCHAR(50)	Patient's family name.	Egwu
patients	date_of_birth	DATE	The patient's birth date, used to determine age and eligibility for age-specific programs such as pediatric or geriatric care.	1998-02-26
patients	phone	VARCHAR(20)	Primary contact phone number.	(772) 328-8523
patients	email	VARCHAR(120)	Email address; not all patients provide one.	rosa.egwu1@example.com
patients	referring_clinic_id	INTEGER	The clinic that first registered or received this patient, whether through a physician referral or self-referral.	5
insurers	insurer_id	INTEGER	Surrogate primary key for the insurer.	1
insurers	insurer_name	VARCHAR(120)	Name of the insurance company or program, e.g. 'BlueCross BlueShield'.	Timberline Trading
insurers	payer_type	VARCHAR(60)	Classifies the insurer as a Private health plan, Medicare, Medicaid, Workers Compensation program, or VA Benefits — categories that differ significantly in billing rules and reimbursement rates.	Medicaid

Table	Column	Type	Meaning	Example
insurers	reimbursement_rate	DECIMAL(5,2)	The negotiated rate, expressed as a percentage of the billed amount, that this payer agrees to reimburse for covered services.	0.88
patient_insurers	patient_insurer_id	INTEGER	Surrogate primary key for the coverage record.	1
patient_insurers	patient_id	INTEGER	The covered patient.	59
patient_insurers	insurer_id	INTEGER	The insurer providing coverage.	2
patient_insurers	policy_number	VARCHAR(30)	The unique identifier printed on the patient's insurance card for this particular policy.	POL-HB-114972
patient_insurers	coverage_start	DATE	The date on which this insurance policy became active for the patient.	2022-05-20
patient_insurers	is_primary	BOOLEAN	Indicates whether this policy is the patient's primary insurance. A value of true means this insurer is billed first; a secondary policy, if present, may cover remaining balances.	0
treatment_plans	treatment_plan_id	INTEGER	Surrogate primary key for the treatment plan.	1
treatment_plans	patient_id	INTEGER	The patient this plan is designed for.	6
treatment_plans	therapist_id	INTEGER	The therapist who authored the plan.	169
treatment_plans	diagnosis_code	VARCHAR(30)	A standardized medical diagnosis code documenting the condition being treated under this plan.	M11.7
treatment_plans	start_date	DATE	Date the treatment plan officially begins.	2022-09-23
treatment_plans	authorized_visits	INTEGER	The total number of therapy visits the insurer has pre-approved for this treatment plan. Appointments beyond this number may not be reimbursed.	5
treatment_plans	status	VARCHAR(60)	Where the treatment plan currently stands — Active means care is ongoing; Completed and Discharged mean the patient finished treatment; On Hold means care is temporarily paused; Cancelled means the plan was abandoned before completion.	Completed
appointments	appointment_id	INTEGER	Surrogate primary key for the appointment.	1
appointments	treatment_plan_id	INTEGER	Identifies which treatment plan this visit is being conducted under, linking the visit to the patient's diagnosis and authorized visit count.	14
appointments	therapist_id	INTEGER	The therapist who conducted or will conduct the session.	1
appointments	clinic_id	INTEGER	The clinic location where the appointment takes place.	10

Table	Column	Type	Meaning	Example
appointments	appointment_datetime	TIMESTAMP	The date and time the appointment was scheduled to begin.	2022-06-28 19:35:00
appointments	status	VARCHAR(60)	The outcome of the scheduled visit — whether the patient attended and it was Completed, whether they did not show up (No-Show), or whether the visit was Cancelled, Rescheduled, or is still In Progress.	Rescheduled
appointments	duration_minutes	INTEGER	How long the therapy session actually lasted, in minutes.	65
appointments	billed_amount	DECIMAL(12,2)	The dollar amount charged to the insurer for this visit before any insurer adjustments or patient cost-sharing.	76.08
insurance_claims	claim_id	INTEGER	Surrogate primary key for the insurance claim.	1
insurance_claims	appointment_id	INTEGER	The appointment this claim is billing for.	179
insurance_claims	insurer_id	INTEGER	The insurer to whom the claim was submitted.	6
insurance_claims	submitted_date	DATE	The date the billing staff sent this claim to the insurer for review.	2025-02-11
insurance_claims	claim_status	VARCHAR(60)	The current standing of the claim in the insurer's review process — ranging from Submitted and Under Review through Approved, Partially Approved, Denied, or Appealed.	Submitted
insurance_claims	approved_amount	DECIMAL(12,2)	The dollar amount the insurer has agreed to pay for this claim. This may be less than the billed amount or zero if the claim was denied.	(null)
insurance_claims	denial_reason	VARCHAR(60)	When a claim is denied or only partially approved, this field records the insurer's stated reason, such as Coverage Lapsed, Not Medically Necessary, or Visit Limit Exceeded.	(null)

Every value in this dataset is synthetic — no real person, company or record is represented. Generated by the Agoge dataset generator 1.0.0 with seed 11; the same brief and seed reproduce this data exactly.