

MediLink 360 - Tele-Health & Insurance (Key Entities Identified)

1. Patients

(**PK:** patient_id(int);

Attributes: full_name(varchar), email(varchar), phone(varchar), dob(date), gender(varchar), country_code(char2), created_at(datetime), kyc_status(varchar))

2. Doctors

(**PK:** doctor_id(int);

FK: hospital_id -> Hospitals.hospital_id;

Attributes: full_name(varchar), license_no(varchar), primary_specialty(varchar), contact_email(varchar), rating(numeric), active(bool))

3. Specialties

(**PK:** spec_id(int);

Attributes: name(varchar))

4. DoctorSpecialties

(**PK:** (doctor_id(int), spec_id(int));

FK: doctor_id -> Doctors.doctor_id, spec_id -> Specialties.spec_id;

Attributes: added_at(datetime))

5. Hospitals

(**PK:** hospital_id(int);

Attributes: name(varchar), accreditation(varchar), country_code(char2), city(varchar), contact_email(varchar), onboarded_at(datetime))

6. Appointments

(**PK:** appointment_id(int);

FK: patient_id -> Patients.patient_id, doctor_id -> Doctors.doctor_id, hospital_id -> Hospitals.hospital_id;

Attributes: scheduled_at(datetime), mode(varchar), status(varchar), notes(varchar))

7. Consultations

(**PK:** consult_id(int);

FK: appointment_id -> Appointments.appointment_id, doctor_id -> Doctors.doctor_id, patient_id -> Patients.patient_id;

Attributes: consult_time(datetime), diagnosis_codes(text), summary_text(text))

8. Prescriptions

(**PK:** presc_id(int);
FK: consult_id -> Consultations.consult_id, doctor_id -> Doctors.doctor_id, patient_id -> Patients.patient_id;
Attributes: issued_at(datetime), expires_at(datetime), status(varchar))

9. Medications

(**PK:** med_id(int);
Attributes: generic_name(varchar), brand_name(varchar), strength(varchar), form(varchar))

10. PrescriptionItems

(**PK:** presc_item_id(int);
FK: presc_id -> Prescriptions.presc_id, med_id -> Medications.med_id;
Attributes: dosage(varchar), duration_days(int), instructions(varchar))

11. Labs

(**PK:** lab_id(int);
Attributes: name(varchar), country_code(char2), city(varchar), contact_email(varchar), onboarded_at(datetime))

12. LabRequests

(**PK:** labreq_id(int);
FK: consult_id -> Consultations.consult_id, patient_id -> Patients.patient_id, lab_id -> Labs.lab_id; **Attributes:** requested_tests(text), requested_at(datetime), status(varchar))

13. LabResults

(**PK:** result_id(int);
FK: labreq_id -> LabRequests.labreq_id;
Attributes: test_name(varchar), result_value(varchar), units(varchar), normal_range(varchar), reported_at(datetime), report_url(varchar))

14. Pharmacies

(**PK:** pharmacy_id(int);
Attributes: name(varchar), country_code(char2), city(varchar), contact_email(varchar), onboarded_at(datetime))

15. PharmacyOrders

(**PK:** order_id(int);
FK: patient_id -> Patients.patient_id, presc_id -> Prescriptions.presc_id, pharmacy_id -> Pharmacies.pharmacy_id;
Attributes: order_status(varchar), placed_at(datetime), delivered_at(datetime), courier_tracking_id(varchar))

16. Insurers

(**PK:** insurer_id(int);

Attributes: name(varchar), country_code(char2), support_email(varchar), policy_prefix(varchar), onboarded_at(datetime))

17. Policies

(**PK:** policy_id(int);

FK: insurer_id -> Insurers.insurer_id;

Attributes: plan_name(varchar), coverage_desc(text), region_scope(varchar), active(bool))

18. PolicyMembers

(**PK:** membership_id(int);

FK: policy_id -> Policies.policy_id, patient_id -> Patients.patient_id;

Attributes: member_type(varchar), start_date(date), end_date(date))

19. Claims

(**PK:** claim_id(int);

FK: policy_id -> Policies.policy_id, patient_id -> Patients.patient_id, consult_id -> Consultations.consult_id;

Attributes: claim_amount(numeric), submitted_at(datetime), status(varchar), decision_notes(text))

20. ClaimItems

(**PK:** claim_item_id (int);

FK: claim_id -> Claims.claim_id, item_type varchar, item_type (varchar), ref_id (int), amount (numeric), description (varchar)

21. Payments

(**PK:** payment_id(int);

FK: claim_id -> Claims.claim_id, insurer_id -> Insurers.insurer_id;

Attributes: amount_paid(numeric), paid_at(datetime), method(varchar), reference_no(varchar))