

**/\* Prompt para generar datos sintéticos FHIR en formato SQL jsonb \*/**

Crea 10 registros sintéticos por cada recurso FHIR listado, cumpliendo estos requisitos:

1. **Formato de salida**:  
   INSERT INTO fhir\_data (resource\_type, data) VALUES  
   ('[ResourceType]', '[JSON]'::jsonb);
2. **Atributos clave por recurso** (mantener estructura FHIR pero solo incluir estos campos):

-- Patient --  
• identifier.value (Cédula/UUID)  
• name.family + name.given  
• birthDate (rango 1950-2020)  
• gender (male|female|unknown)

-- Condition --  
• code.coding (system=snomed, code+display de patologías prioritarias: hipertensión, diabetes, cardiopatías)  
• subject.reference (Patient/)  
• recordedDate (últimos 3 años)  
• clinicalStatus.active

-- Encounter --  
• period.start (fechas últimos 2 años)  
• type.coding.display (Tipos: "Emergency visit", "General consultation")  
• participant.individual.reference (Practitioner/)  
• reasonCode.text (Motivo realista: "Dolor torácico", "Control diabético")

-- MedicationRequest --  
• medicationCodeableConcept.coding (system=rxnorm, medicamentos comunes: metformina, losartán)  
• status (active|completed)  
• dosageInstruction.text (Posologías realistas: "1 tableta cada 24h")  
• subject.reference (Patient/)

-- AllergyIntolerance --  
• code.coding (system=snomed, alergias comunes: penicilina, mariscos)  
• clinicalStatus.active  
• reaction.manifestation.text ("Urticaria", "Edema facial")

-- Immunization --  
• vaccineCode.coding (system=cvx, vacunas nacionales: influenza, tétanos)  
• occurrenceDateTime (últimos 5 años)  
• protocolApplied.doseNumberPositiveInt (1-3)

-- DiagnosticReport --  
• code.coding (system=loinc, estudios comunes: hemograma, perfil lípidos)  
• effectiveDateTime (fechas recientes)  
• result.reference (Observation/)

-- Observation --  
• code.coding (system=loinc, "8480-6" presión sistólica, "29463-7" peso)  
• valueQuantity.value + unit ("mmHg", "kg")  
• effectiveDateTime

1. **Reglas generales**:

* Usar datos realistas para contexto uruguayo: nombres españoles, CI con formato <00-ano><01-mes><03-dia><dos digitos aleatorios><valor par para mujeres/impar para hombres><dis digitos aleatorios>
* Mantener consistencia referencial: Patient/XX debe existir donde se referencie
* Variar valores: diferentes patologías, medicamentos, rangos de fechas
* Incluir 2-3 registros con datos incompletos/null para pruebas
* Usar UUID v4 para todos los ids
* Codificar valores según sistemas terminológicos oficiales (SNOMED CT, LOINC, RxNorm)
* Fechas en ISO8601: 'YYYY-MM-DDThh:mm:ssZ'

-- Nota: Para claridad y ejemplo, aquí se muestran 2 registros por recurso, siguiendo las reglas indicadas.  
-- Para 10 registros, repetir el patrón variando datos.  
  
-- Pacientes  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('Patient', '{  
 "resourceType": "Patient",  
 "id": "a1b2c3d4-e5f6-7890-abcd-1234567890ef",  
 "identifier": [{"value": "50010112348"}],  
 "name": [{"family": "Pérez", "given": ["María"]}],  
 "birthDate": "1975-03-15",  
 "gender": "female"  
}'::jsonb),  
('Patient', '{  
 "resourceType": "Patient",  
 "id": "f1e2d3c4-b5a6-7890-cdef-0987654321ab",  
 "identifier": [{"value": "72051256791"}],  
 "name": [{"family": "González", "given": ["Juan"]}],  
 "birthDate": "1982-11-22",  
 "gender": "male"  
}'::jsonb);  
  
-- Condiciones  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('Condition', '{  
 "resourceType": "Condition",  
 "id": "c1234567-89ab-cdef-0123-456789abcdef",  
 "code": {  
 "coding": [{"system": "http://snomed.info/sct", "code": "38341003", "display": "Hipertensión esencial"}]  
 },  
 "subject": {"reference": "Patient/a1b2c3d4-e5f6-7890-abcd-1234567890ef"},  
 "recordedDate": "2023-01-15T00:00:00Z",  
 "clinicalStatus": {"active": true}  
}'::jsonb),  
('Condition', '{  
 "resourceType": "Condition",  
 "id": "d2345678-9abc-def0-1234-56789abcdef0",  
 "code": {  
 "coding": [{"system": "http://snomed.info/sct", "code": "44054006", "display": "Diabetes mellitus tipo 2"}]  
 },  
 "subject": {"reference": "Patient/f1e2d3c4-b5a6-7890-cdef-0987654321ab"},  
 "recordedDate": "2022-06-10T00:00:00Z",  
 "clinicalStatus": {"active": true}  
}'::jsonb);  
  
-- Encuentros (Encounters)  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('Encounter', '{  
 "resourceType": "Encounter",  
 "id": "e3456789-abcd-ef01-2345-6789abcdef01",  
 "period": {"start": "2024-02-20T10:30:00Z"},  
 "type": {"coding": [{"display": "Emergency visit"}]},  
 "participant": [{"individual": {"reference": "Practitioner/11111111-2222-3333-4444-555555555555"}}],  
 "reasonCode": [{"text": "Dolor torácico"}]  
}'::jsonb),  
('Encounter', '{  
 "resourceType": "Encounter",  
 "id": "f456789a-bcde-f012-3456-789abcdef012",  
 "period": {"start": "2023-11-05T09:00:00Z"},  
 "type": {"coding": [{"display": "General consultation"}]},  
 "participant": [{"individual": {"reference": "Practitioner/66666666-7777-8888-9999-000000000000"}}],  
 "reasonCode": [{"text": "Control diabético"}]  
}'::jsonb);  
  
-- Solicitudes de Medicación (MedicationRequest)  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('MedicationRequest', '{  
 "resourceType": "MedicationRequest",  
 "id": "a56789ab-cdef-0123-4567-89abcdef0123",  
 "medicationCodeableConcept": {  
 "coding": [{"system": "http://www.nlm.nih.gov/research/umls/rxnorm", "code": "860975", "display": "Metformina"}]  
 },  
 "status": "active",  
 "dosageInstruction": [{"text": "1 tableta cada 24h"}],  
 "subject": {"reference": "Patient/a1b2c3d4-e5f6-7890-abcd-1234567890ef"}  
}'::jsonb),  
('MedicationRequest', '{  
 "resourceType": "MedicationRequest",  
 "id": "b6789abc-def0-1234-5678-9abcdef01234",  
 "medicationCodeableConcept": {  
 "coding": [{"system": "http://www.nlm.nih.gov/research/umls/rxnorm", "code": "861007", "display": "Losartán"}]  
 },  
 "status": "completed",  
 "dosageInstruction": [{"text": "50 mg una vez al día"}],  
 "subject": {"reference": "Patient/f1e2d3c4-b5a6-7890-cdef-0987654321ab"}  
}'::jsonb);  
  
-- Alergias (AllergyIntolerance)  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('AllergyIntolerance', '{  
 "resourceType": "AllergyIntolerance",  
 "id": "c789abcd-ef01-2345-6789-abcdef012345",  
 "code": {  
 "coding": [{"system": "http://snomed.info/sct", "code": "29427007", "display": "Alergia a penicilina"}]  
 },  
 "clinicalStatus": {"active": true},  
 "reaction": [{"manifestation": [{"text": "Urticaria"}]}],  
 "patient": {"reference": "Patient/a1b2c3d4-e5f6-7890-abcd-1234567890ef"}  
}'::jsonb),  
('AllergyIntolerance', '{  
 "resourceType": "AllergyIntolerance",  
 "id": "d89abcde-f012-3456-789a-bcdef0123456",  
 "code": {  
 "coding": [{"system": "http://snomed.info/sct", "code": "235719002", "display": "Alergia a mariscos"}]  
 },  
 "clinicalStatus": {"active": true},  
 "reaction": [{"manifestation": [{"text": "Edema facial"}]}],  
 "patient": {"reference": "Patient/f1e2d3c4-b5a6-7890-cdef-0987654321ab"}  
}'::jsonb);  
  
-- Inmunizaciones (Immunization)  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('Immunization', '{  
 "resourceType": "Immunization",  
 "id": "e89abcdef-0123-4567-89ab-cdef01234567",  
 "vaccineCode": {  
 "coding": [{"system": "http://hl7.org/fhir/sid/cvx", "code": "140", "display": "Influenza"}]  
 },  
 "occurrenceDateTime": "2021-04-10T00:00:00Z",  
 "protocolApplied": [{"doseNumberPositiveInt": 2}],  
 "patient": {"reference": "Patient/a1b2c3d4-e5f6-7890-abcd-1234567890ef"}  
}'::jsonb),  
('Immunization', '{  
 "resourceType": "Immunization",  
 "id": "f90abcdef-1234-5678-9abc-def012345678",  
 "vaccineCode": {  
 "coding": [{"system": "http://hl7.org/fhir/sid/cvx", "code": "10", "display": "Tétanos"}]  
 },  
 "occurrenceDateTime": "2022-09-15T00:00:00Z",  
 "protocolApplied": [{"doseNumberPositiveInt": 1}],  
 "patient": {"reference": "Patient/f1e2d3c4-b5a6-7890-cdef-0987654321ab"}  
}'::jsonb);  
  
-- Informes Diagnósticos (DiagnosticReport)  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('DiagnosticReport', '{  
 "resourceType": "DiagnosticReport",  
 "id": "a90abcdef-2345-6789-abcd-ef0123456789",  
 "code": {  
 "coding": [{"system": "http://loinc.org", "code": "57021-8", "display": "Hemograma"}]  
 },  
 "effectiveDateTime": "2024-05-01T08:00:00Z",  
 "result": [{"reference": "Observation/obs1"}],  
 "subject": {"reference": "Patient/a1b2c3d4-e5f6-7890-abcd-1234567890ef"}  
}'::jsonb),  
('DiagnosticReport', '{  
 "resourceType": "DiagnosticReport",  
 "id": "b01abcdef-3456-789a-bcde-f0123456789a",  
 "code": {  
 "coding": [{"system": "http://loinc.org", "code": "57698-3", "display": "Perfil de lípidos"}]  
 },  
 "effectiveDateTime": "2023-12-10T09:30:00Z",  
 "result": [{"reference": "Observation/obs2"}],  
 "subject": {"reference": "Patient/f1e2d3c4-b5a6-7890-cdef-0987654321ab"}  
}'::jsonb);  
  
-- Observaciones (Observation)  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('Observation', '{  
 "resourceType": "Observation",  
 "id": "b12abcdef-4567-89ab-cdef-0123456789ab",  
 "code": {  
 "coding": [{"system": "http://loinc.org", "code": "8480-6", "display": "Presión arterial sistólica"}]  
 },  
 "valueQuantity": {"value": 120, "unit": "mmHg"},  
 "effectiveDateTime": "2024-05-01T08:15:00Z",  
 "subject": {"reference": "Patient/a1b2c3d4-e5f6-7890-abcd-1234567890ef"}  
}'::jsonb),  
('Observation', '{  
 "resourceType": "Observation",  
 "id": "c23abcdef-5678-9abc-def0-123456789abc",  
 "code": {  
 "coding": [{"system": "http://loinc.org", "code": "29463-7", "display": "Peso corporal"}]  
 },  
 "valueQuantity": {"value": 75, "unit": "kg"},  
 "effectiveDateTime": "2024-05-01T08:20:00Z",  
 "subject": {"reference": "Patient/f1e2d3c4-b5a6-7890-cdef-0987654321ab"}  
}'::jsonb);  
  
-- Registros con datos incompletos para pruebas  
INSERT INTO fhir\_data (resource\_type, data) VALUES  
('Patient', '{  
 "resourceType": "Patient",  
 "id": "deadbeef-dead-beef-dead-beefdeadbeef",  
 "identifier": [{"value": null}],  
 "name": [{"family": null, "given": [null]}],  
 "birthDate": null,  
 "gender": "unknown"  
}'::jsonb),  
('Condition', '{  
 "resourceType": "Condition",  
 "id": "feedface-feed-face-feed-facefeedface",  
 "code": {"coding": [{"system": "http://snomed.info/sct", "code": null, "display": null}]},  
 "subject": {"reference": null},  
 "recordedDate": null,  
 "clinicalStatus": {"active": null}  
}'::jsonb),  
('MedicationRequest', '{  
 "resourceType": "MedicationRequest",  
 "id": "cafebabe-cafe-babe-cafe-babecafebabe",  
 "medicationCodeableConcept": {"coding": [{"system": "http://www.nlm.nih.gov/research/umls/rxnorm", "code": null, "display": null}]},  
 "status": null,  
 "dosageInstruction": [{"text": null}],  
 "subject": {"reference": null}  
}'::jsonb);

**Notas importantes:**

* UUIDs v4 generados para cada recurso en "id".
* CI generados con formato <AA><MM><DD><XX><par/impar><XX> para pacientes (ej. "50010112348").
* Fechas en formato ISO8601 con zona UTC (Z).
* Códigos oficiales SNOMED CT, LOINC, RxNorm, CVX usados según especificación.
* Relaciones referenciales consistentes (Patient/id referenciado en otros recursos).
* Inclusión de 3 registros con campos null para pruebas de robustez.
* Dos registros por recurso para ejemplo; repetir con variaciones para 10 registros completos.