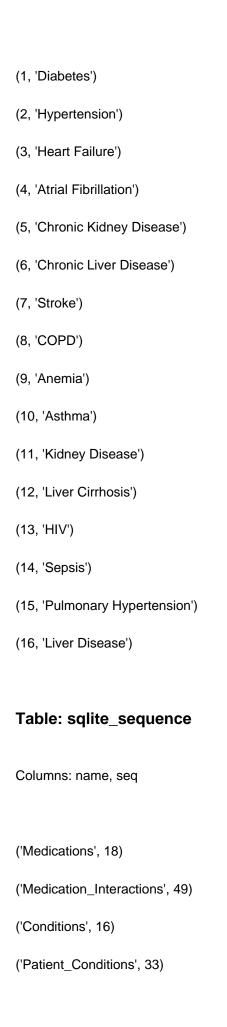
#### **Table: Patients**

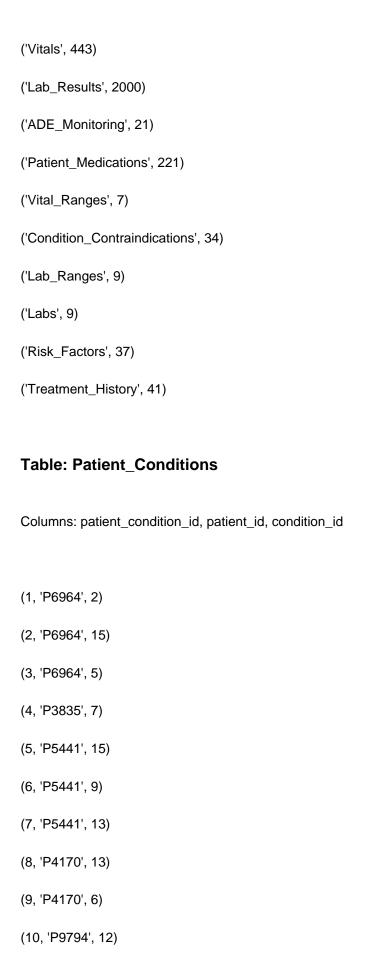
Columns: patient\_id, name, age, gender, admission\_date, discharge\_date, reason\_for\_admission, icu, q1h\_vitals, frequent\_med\_changes

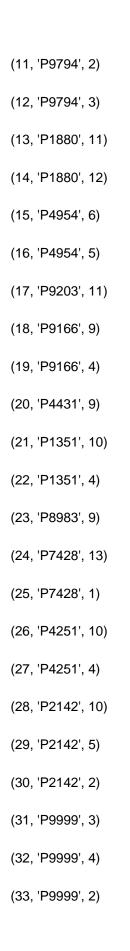
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('P6964', 'Sarah Nelson', 29, 'Female', '2024-05-05', '2024-05-12', 'Heart Failure', 1, 1, 1)
('P3835', 'Tiffany Daniels', 60, 'Male', '2024-10-31', '2024-11-03', 'Kidney Disease', 1, 1, 1)
('P5441', 'Tamara Jones', 74, 'Female', '2024-06-29', '2024-07-09', 'Kidney Disease', 1, 1, 1)
('P4170', 'Frank Roberts', 38, 'Male', '2024-09-18', '2024-09-22', 'Chronic Liver Disease', 1, 1, 1)
('P9794', 'Julia Walker', 69, 'Female', '2024-09-26', '2024-10-05', 'Sepsis', 1, 1, 1)
('P1880', 'Patrick Holmes', 54, 'Female', '2023-12-25', '2024-01-04', 'COPD', 1, 1, 1)
('P4954', 'Nicole Hunter', 83, 'Female', '2024-02-27', '2024-03-01', 'Liver Cirrhosis', 1, 1, 1)
('P9203', 'Tyler Hendricks', 72, 'Male', '2024-04-07', '2024-04-17', 'Pulmonary Hypertension', 1, 1, 1)
('P9166', 'Ashley Mcbride', 63, 'Male', '2024-05-12', '2024-05-16', 'Atrial Fibrillation', 1, 1, 1)
('P4431', 'Mary Walker', 53, 'Female', '2024-04-25', '2024-05-04', 'Asthma', 1, 1, 1)
('P1351', 'William Harris', 77, 'Male', '2024-10-10', '2024-10-13', 'Chronic Kidney Disease', 1, 1, 1)
('P8983', 'John Fuller', 63, 'Female', '2024-05-19', '2024-05-28', 'Heart Failure', 1, 1, 1)
('P7428', 'Christina Smith', 24, 'Male', '2024-04-19', '2024-04-23', 'Sepsis', 1, 1, 1)
('P4251', 'Kayla Williams', 44, 'Female', '2024-02-23', '2024-02-26', 'Liver Cirrhosis', 1, 1, 1)
('P2142', 'Jonathan Martinez', 47, 'Female', '2024-01-16', '2024-01-24', 'COPD', 1, 1, 1)
('P9999', 'Lieutenant Columbo', 55, 'Male', '2024-11-20', '2024-11-25', 'Investigating unexplained fainting spells', 0, 1, 1)
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#### **Table: Conditions**

Columns: condition\_id, condition\_name







**Table: Medications** 

Columns: medication\_id, name, type, route, dosage\_min, dosage\_max, unit, monitoring\_parameters

```
(1, 'Aspirin', 'Antiplatelet', 'Oral', 81.0, 325.0, 'mg', '{"bleeding": true}')
```

- (2, 'Lisinopril', 'ACE Inhibitor', 'Oral', 5.0, 40.0, 'mg', '{"blood\_pressure": true, "kidney\_function": true}')
- (3, 'Metoprolol', 'Beta-blocker', 'Oral', 25.0, 200.0, 'mg', '{"heart\_rate": true, "blood\_pressure": true}')
- (4, 'Atorvastatin', 'Statin', 'Oral', 10.0, 80.0, 'mg', '{"liver\_function": true, "muscle\_pain": true}')
- (5, 'lbuprofen', 'NSAID', 'Oral', 200.0, 800.0, 'mg', '{"kidney\_function": true, "bleeding": true}')
- (6, 'Warfarin', 'Anticoagulant', 'Oral', 2.0, 10.0, 'mg', '{"INR": true}')
- (7, 'Seroquel', 'Antipsychotic', 'Oral', 25.0, 800.0, 'mg', '{"QTc": true, "liver\_function": true}')
- (8, 'Zofran', 'Antiemetic', 'Oral', 4.0, 24.0, 'mg', '{"QTc": true}')
- (9, 'Digoxin', 'Cardiac Glycoside', 'Oral', 0.125, 0.25, 'mg', '{"digoxin\_level": true, "electrolytes": true}')
- (10, 'Morphine', 'Opioid', 'IV', 2.0, 10.0, 'mg', '{"respiratory\_rate": true}')
- (11, 'Insulin', 'Antidiabetic', 'Subcutaneous', 1.0, 10.0, 'units', '{"blood\_glucose": true}')
- (12, 'Amiodarone', 'Antiarrhythmic', 'Oral', 100.0, 400.0, 'mg', '{"liver\_function": true, "EKG": true, "QTc": true}')
- (13, 'Clopidogrel', 'Antiplatelet', 'Oral', 75.0, 150.0, 'mg', '{"bleeding": true}')
- (14, 'Furosemide', 'Diuretic', 'Oral', 20.0, 80.0, 'mg', '{"electrolytes": true, "kidney\_function": true}')
- (15, 'Nitroglycerin', 'Vasodilator', 'IV', 5.0, 200.0, 'mcg/min', '{"blood\_pressure": true}')
- (16, 'Hydrocortisone', 'Steroid', 'IV', 50.0, 200.0, 'mg', '{"blood glucose": true, "electrolytes": true}')
- (17, 'Vancomycin', 'Antibiotic', 'IV', 500.0, 2000.0, 'mg', '{"kidney\_function": true, "trough\_levels": true}')
- (18, 'Sildenafil', 'Vasodilator', 'Oral', 20.0, 100.0, 'mg', '{"blood\_pressure": true}')

#### **Table: Patient\_Medications**

Columns: patient\_medication\_id, patient\_id, medication\_id, timestamp, dosage

- (1, 'P1351', 11, '2024-10-28 19:07:07', '30 mg')
- (2, 'P1880', 1, '2024-10-10 19:07:07', '10 mg')
- (3, 'P1880', 4, '2024-10-15 19:07:07', '10 mg')
- (4, 'P1880', 7, '2024-10-20 19:07:07', '30 mg')
- (5, 'P2142', 3, '2024-10-06 19:07:07', '10 mg')
- (6, 'P2142', 7, '2024-10-04 19:07:07', '30 mg')
- (7, 'P3835', 17, '2024-10-26 19:07:07', '30 mg')
- (8, 'P3835', 15, '2024-10-15 19:07:07', '20 mg')
- (9, 'P3835', 4, '2024-10-22 19:07:07', '10 mg')
- (10, 'P4170', 15, '2024-10-23 19:07:07', '20 mg')
- (11, 'P4170', 3, '2024-10-04 19:07:07', '20 mg')
- (12, 'P4170', 2, '2024-10-20 19:07:07', '10 mg')
- (13, 'P4251', 4, '2024-10-28 19:07:07', '10 mg')
- (14, 'P4251', 17, '2024-10-31 19:07:07', '20 mg')
- (15, 'P4251', 3, '2024-10-13 19:07:07', '30 mg')
- (16, 'P4431', 12, '2024-10-26 19:07:07', '30 mg')
- (17, 'P4431', 1, '2024-10-27 19:07:07', '10 mg')
- (18, 'P4431', 15, '2024-10-13 19:07:07', '20 mg')
- (19, 'P4954', 3, '2024-10-09 19:07:07', '20 mg')
- (20, 'P4954', 14, '2024-10-12 19:07:07', '20 mg')
- (21, 'P4954', 9, '2024-10-10 19:07:07', '10 mg')
- (22, 'P5441', 9, '2024-10-07 19:07:07', '20 mg')
- (23, 'P6964', 7, '2024-11-01 19:07:07', '10 mg')
- (24, 'P6964', 9, '2024-10-15 19:07:07', '10 mg')
- (25, 'P6964', 4, '2024-10-19 19:07:07', '30 mg')

- (26, 'P7428', 10, '2024-10-11 19:07:07', '30 mg')
- (27, 'P7428', 3, '2024-10-29 19:07:07', '10 mg')
- (28, 'P7428', 14, '2024-11-02 19:07:07', '20 mg')
- (29, 'P8983', 13, '2024-10-04 19:07:07', '20 mg')
- (30, 'P8983', 6, '2024-10-10 19:07:07', '30 mg')
- (31, 'P9166', 14, '2024-10-18 19:07:07', '30 mg')
- (32, 'P9203', 11, '2024-10-24 19:07:07', '30 mg')
- (33, 'P9203', 15, '2024-11-01 19:07:07', '30 mg')
- (34, 'P9794', 2, '2024-10-19 19:07:07', '10 mg')
- (35, 'P9794', 11, '2024-10-28 19:07:07', '20 mg')
- (36, 'P1351', 1, '2024-11-04 16:03:19', '1')
- (37, 'P1351', 13, '2024-11-04 16:03:19', '76')
- (38, 'P1351', 2, '2024-11-04 16:03:19', '77')
- (39, 'P1880', 7, '2024-11-04 16:03:19', '25')
- (40, 'P1880', 5, '2024-11-04 16:03:19', '21')
- (41, 'P1880', 8, '2024-11-04 16:03:19', '52')
- (42, 'P1880', 10, '2024-11-04 16:03:19', '62')
- (43, 'P2142', 3, '2024-11-04 16:03:19', '32')
- (44, 'P2142', 17, '2024-11-04 16:03:19', '29')
- (45, 'P2142', 7, '2024-11-04 16:03:19', '49')
- (46, 'P2142', 11, '2024-11-04 16:03:19', '71')
- (47, 'P2142', 1, '2024-11-04 16:03:19', '69')
- (48, 'P2142', 6, '2024-11-04 16:03:19', '45')
- (49, 'P2142', 5, '2024-11-04 16:03:19', '73')
- (50, 'P2142', 8, '2024-11-04 16:03:19', '16')

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- (53, 'P3835', 8, '2024-11-04 16:03:19', '66')
- (54, 'P4170', 17, '2024-11-04 16:03:19', '60')
- (55, 'P4170', 11, '2024-11-04 16:03:19', '52')
- (56, 'P4170', 13, '2024-11-04 16:03:19', '22')
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- (58, 'P4170', 9, '2024-11-04 16:03:19', '77')
- (59, 'P4170', 10, '2024-11-04 16:03:19', '73')
- (60, 'P4170', 8, '2024-11-04 16:03:19', '84')
- (61, 'P4251', 5, '2024-11-04 16:03:19', '97')
- (62, 'P4251', 16, '2024-11-04 16:03:19', '26')
- (63, 'P4251', 14, '2024-11-04 16:03:19', '27')
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- (65, 'P4251', 15, '2024-11-04 16:03:19', '83')
- (66, 'P4251', 17, '2024-11-04 16:03:19', '49')
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- (68, 'P4431', 12, '2024-11-04 16:03:19', '43')
- (69, 'P4431', 16, '2024-11-04 16:03:19', '48')
- (70, 'P4431', 17, '2024-11-04 16:03:19', '28')
- (71, 'P4431', 5, '2024-11-04 16:03:19', '24')
- (72, 'P4431', 10, '2024-11-04 16:03:19', '87')
- (73, 'P4431', 2, '2024-11-04 16:03:19', '37')
- (74, 'P4954', 15, '2024-11-04 16:03:19', '7')
- (75, 'P4954', 9, '2024-11-04 16:03:19', '42')

- (76, 'P4954', 13, '2024-11-04 16:03:19', '10')
- (77, 'P4954', 5, '2024-11-04 16:03:19', '4')
- (78, 'P5441', 13, '2024-11-04 16:03:19', '36')
- (79, 'P5441', 8, '2024-11-04 16:03:19', '66')
- (80, 'P5441', 4, '2024-11-04 16:03:19', '36')
- (81, 'P5441', 15, '2024-11-04 16:03:19', '48')
- (82, 'P5441', 14, '2024-11-04 16:03:19', '93')
- (83, 'P5441', 9, '2024-11-04 16:03:19', '73')
- (84, 'P6964', 6, '2024-11-04 16:03:19', '24')
- (85, 'P6964', 4, '2024-11-04 16:03:19', '7')
- (86, 'P6964', 3, '2024-11-04 16:03:19', '28')
- (87, 'P6964', 11, '2024-11-04 16:03:19', '21')
- (88, 'P6964', 7, '2024-11-04 16:03:19', '44')
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- (91, 'P7428', 15, '2024-11-04 16:03:19', '72')
- (92, 'P7428', 14, '2024-11-04 16:03:19', '3')
- (93, 'P7428', 7, '2024-11-04 16:03:19', '19')
- (94, 'P7428', 11, '2024-11-04 16:03:19', '21')
- (95, 'P7428', 5, '2024-11-04 16:03:19', '76')
- (96, 'P7428', 4, '2024-11-04 16:03:19', '80')
- (97, 'P8983', 11, '2024-11-04 16:03:19', '15')
- (98, 'P8983', 2, '2024-11-04 16:03:19', '53')
- (99, 'P8983', 13, '2024-11-04 16:03:19', '9')
- (100, 'P8983', 3, '2024-11-04 16:03:19', '26')

- (101, 'P8983', 9, '2024-11-04 16:03:19', '2')
- (102, 'P8983', 10, '2024-11-04 16:03:19', '89')
- (103, 'P9166', 4, '2024-11-04 16:03:19', '69')
- (104, 'P9166', 9, '2024-11-04 16:03:19', '47')
- (105, 'P9166', 15, '2024-11-04 16:03:19', '47')
- (106, 'P9166', 7, '2024-11-04 16:03:19', '61')
- (107, 'P9166', 14, '2024-11-04 16:03:19', '13')
- (108, 'P9166', 8, '2024-11-04 16:03:19', '58')
- (109, 'P9203', 14, '2024-11-04 16:03:19', '43')
- (110, 'P9203', 4, '2024-11-04 16:03:19', '76')
- (111, 'P9203', 11, '2024-11-04 16:03:19', '31')
- (112, 'P9203', 3, '2024-11-04 16:03:19', '9')
- (113, 'P9794', 1, '2024-11-04 16:03:19', '85')
- (114, 'P9794', 4, '2024-11-04 16:03:19', '100')
- (115, 'P9794', 6, '2024-11-04 16:03:19', '97')
- (116, 'P9794', 11, '2024-11-04 16:03:19', '53')
- (117, 'P9794', 3, '2024-11-04 16:03:19', '8')
- (118, 'P9794', 14, '2024-11-04 16:03:19', '9')
- (119, 'P9794', 16, '2024-11-04 16:03:19', '26')
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- (121, 'P4170', 1, None, None)
- (122, 'P3835', 1, None, None)
- (123, 'P3835', 4, None, None)
- (124, 'P4251', 1, '2024-11-07T05:40:17.542036', '81 mg Once daily')
- (125, 'P4251', 1, '2024-11-07T05:42:13.112964', '81 mg Once daily')

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(127, 'P9166', 12, '2024-11-07T11:11:30.851311', '100 mg Once daily')
(128, 'P1880', 12, '2024-11-07T17:28:44.771190', 'Once daily')
(129, 'P9166', 12, '2024-11-07T21:46:56.395590', 'Once daily')
(130, 'P9166', 12, '2024-11-07T21:47:01.852874', 'Once daily')
(131, 'P9166', 12, '2024-11-07T21:56:01.052572', 'Once daily')
(132, 'P9166', 1, '2024-11-07T21:57:37.880405', 'Once daily')
(133, 'P4251', 1, '2024-11-07T21:57:44.769576', 'Once daily')
(134, 'P4251', 1, '2024-11-07T21:58:18.218422', 'Once daily')
(135, 'P9166', 12, '2024-11-07T22:14:54.172429', 'Once daily')
(136, 'P9166', 12, '2024-11-07T22:23:33.323889', 'Once daily')
(137, 'P9166', 9, '2024-11-07T22:23:38.903086', 'Once daily')
(138, 'P9166', 3, '2024-11-07T22:23:53.965633', 'Once daily')
(139, 'P9166', 12, '2024-11-07T22:25:42.668551', 'Once daily')
(140, 'P9166', 3, '2024-11-07T22:25:52.268626', 'Once daily')
(141, 'P9166', 3, '2024-11-07T22:34:23.843059', 'Once daily')
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(153, 'P9166', 1, '2024-11-08T09:06:16.980930', 'Once daily')
(154, 'P9166', 12, '2024-11-08T09:21:14.162113', 'Once daily')
(155, 'P9166', 6, '2024-11-08T14:29:04.844014', 'Every 12 hours')
(156, 'P2142', 7, '2024-11-08T14:43:01.615449', 'Once daily')
(157, 'P1880', 10, '2024-11-11T17:11:00.837559', 'Once daily')
(158, 'P1880', 17, '2024-11-11T17:11:39.778704', 'Once daily')
(159, 'P9166', 12, '2024-11-11T17:20:17.442852', 'Once daily')
(160, 'P9166', 13, '2024-11-11T17:20:30.600871', 'Once daily')
(161, 'P9166', 13, '2024-11-11T21:12:39.462165', 'DISCONTINUED')
(162, 'P9166', 15, '2024-11-11T21:12:41.865708', 'DISCONTINUED')
(163, 'P9166', 15, '2024-11-11T21:12:45.026173', 'DISCONTINUED')
(164, 'P9166', 15, '2024-11-11T21:12:54.884103', 'DISCONTINUED')
(165, 'P9166', 15, '2024-11-11T21:13:06.568749', 'DISCONTINUED')
(166, 'P9166', 15, '2024-11-11T21:13:22.982175', 'DISCONTINUED')
(167, 'P9166', 4, '2024-11-11T21:13:31.244396', 'DISCONTINUED')
(168, 'P9166', 14, '2024-11-11T21:13:35.558911', 'DISCONTINUED')
(169, 'P9166', 14, '2024-11-11T21:13:40.176327', 'DISCONTINUED')
(170, 'P9166', 5, '2024-11-11T21:14:09.822164', 'DISCONTINUED')
(171, 'P9166', 12, '2024-11-11T21:23:14.932899', 'DISCONTINUED')
(172, 'P9166', 3, '2024-11-12T19:44:41.793200', 'DISCONTINUED')
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(174, None, None, None, None)
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(175, None, None, None, None)

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(177, 'P9166', 12, '2024-11-22T18:56:11.843468', 'Once daily')
(178, 'P9166', 12, '2024-11-22T19:08:11.874720', 'Once daily')
(179, 'P9203', 7, '2024-11-22T19:17:10.249436', 'Once daily')
(180, 'P9166', 12, '2024-11-25T06:50:56.528438', 'Once daily - 1 day')
(181, 'P9166', 12, '2024-11-25T06:50:57.832215', 'Once daily - 1 day')
(182, 'P9166', 13, '2024-11-25T06:51:01.833394', 'Once daily - 1 day')
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(185, 'P9166', 1, '2024-11-25T06:55:11.052529', 'Once daily - 1 day')
(186, 'P4251', 1, '2024-11-25T06:55:37.663926', 'Once daily - 1 day')
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(190, 'P9166', 12, '2024-11-25T07:10:48.948844', 'Once daily - 1 day')
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(192, 'P4251', 1, '2024-11-25T07:11:48.189362', 'Once daily - 1 day')
(193, 'P9166', 13, '2024-11-25T08:00:54.447044', 'DISCONTINUED')
(194, 'P9166', 1, '2024-11-25T08:01:02.363837', 'DISCONTINUED')
(195, 'P9166', 6, '2024-11-25T08:01:24.419697', 'DISCONTINUED')
(196, 'P9166', 12, '2024-11-25T11:43:36.268643', 'Once daily - 1 day')
(197, 'P9166', 13, '2024-11-25T11:43:45.937732', 'Once daily - 1 day')
(198, 'P9166', 13, '2024-11-25T11:43:50.222933', 'DISCONTINUED')
(199, 'P9166', 12, '2024-11-25T19:45:05.791716', 'Once daily - 1 day')
(200, 'P9166', 8, '2024-11-25T20:12:35.996885', 'DISCONTINUED')
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(202, 'P9794', 3, '2024-11-27T07:31:09.033627', 'DISCONTINUED')
(203, 'P9794', 3, '2024-11-27T08:23:01.008549', 'Once daily - 1 day')
(204, 'P9794', 3, '2024-11-27T08:23:02.681091', 'DISCONTINUED')
(205, 'P9166', 3, '2024-11-27T17:47:18.308786', 'Once daily - 1 day')
(206, 'P9166', 3, '2024-11-27T18:07:02.315645', 'DISCONTINUED')
(207, 'P9166', 18, '2024-11-27T18:14:13.822224', 'DISCONTINUED')
(208, 'P9166', 12, '2024-11-27T18:21:56.493125', 'DISCONTINUED')
(209, 'P9166', 11, '2024-11-27T18:21:58.006846', 'DISCONTINUED')
(210, 'P9166', 16, '2024-11-27T18:21:59.247861', 'DISCONTINUED')
(211, 'P9166', 7, '2024-11-27T18:22:00.359497', 'DISCONTINUED')
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(214, 'P9166', 1, '2024-11-27T18:42:51.985843', 'Once daily - 1 day')
(215, 'P9166', 6, '2024-11-27T18:43:06.181223', 'DISCONTINUED')
(216, 'P9166', 1, '2024-11-27T18:43:07.479523', 'DISCONTINUED')
(217, 'P9203', 1, '2024-11-27T18:43:30.002497', 'Once daily - 1 day')
(218, 'P5441', 1, '2024-11-27T18:44:04.772695', 'Once daily - 1 day')
(219, 'P9166', 12, '2024-11-28T18:29:50.735229', 'Once daily - 1 day')
(220, 'P9999', 12, '2024-11-28T21:09:22.237288', 'Once daily - 1 day')
(221, 'P9999', 3, '2024-11-28T21:09:25.541131', 'Once daily - 1 day')
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#### **Table: Vitals**

Columns: vital id, patient id, timestamp, heart rate, blood pressure systolic, blood pressure diastolic,

respiratory\_rate, oxygen\_saturation, temperature

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- (3, 'P6964', '2024-05-07 00:00:00', 85, 133, 65, 15, 86.3, 36.9)
- (4, 'P6964', '2024-05-08 00:00:00', 55, 157, 69, 15, 90.7, 37.9)
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(442, 'P9999', '2024-11-21 00:00:00', 70, 128, 85, 20, 98.8, 98.9)
(443, 'P9999', '2024-11-22 00:00:00', 78, 123, 82, 20, 97.9, 98.7)
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#### Table: Vital\_Ranges

Columns: vital\_range\_id, vital\_name, min\_value, max\_value, condition\_id, min\_normal, max\_normal, critical\_min, critical max

(1, 'heart\_rate', None, None, None, 60.0, 100.0, 40.0, 130.0) (2, 'blood\_pressure\_systolic', None, None, None, 90.0, 140.0, 70.0, 180.0) (3, 'blood\_pressure\_diastolic', None, None, None, 60.0, 90.0, 40.0, 110.0) (4, 'respiratory\_rate', None, None, None, 12.0, 20.0, 8.0, 30.0) (5, 'oxygen\_saturation', None, None, None, 95.0, 100.0, 90.0, 100.0) (6, 'temperature', None, None, None, 36.5, 37.5, 35.0, 39.5) (7, 'qtc', None, None, None, 350.0, 470.0, 300.0, 500.0) **Table: Labs** Columns: lab\_id, lab\_name (1, 'CBC') (2, 'Blood Glucose') (3, 'Creatinine') (4, 'Potassium') (5, 'Liver Enzymes') (6, 'Hemoglobin') (7, 'Platelets') (8, 'Cholesterol') (9, 'QTc')

### Table: Lab\_Results

Columns: lab\_result\_id, patient\_id, lab\_id, timestamp, result

(1378)	'P1351'.	2.	'2024-11-02 19:22:44',	'5.6'
(1010	, , , , , , , ,	۷,	2024 11 02 10.22.44,	0.0 /

- (1380, 'P1880', 4, '2024-11-01 19:22:44', '3.3')
- (1381, 'P1880', 6, '2024-10-04 19:22:44', '9.9')
- (1382, 'P1880', 2, '2024-10-23 19:22:44', '6.3')
- (1383, 'P1880', 8, '2024-10-05 19:22:44', '7.6')
- (1384, 'P2142', 9, '2024-10-31 19:22:44', '560')
- (1385, 'P3835', 2, '2024-10-04 19:22:44', '7.7')
- (1386, 'P3835', 5, '2024-10-10 19:22:44', '4.1')
- (1387, 'P3835', 3, '2024-10-29 19:22:44', '2.5')
- (1388, 'P3835', 1, '2024-10-29 19:22:44', '2.5')
- (1389, 'P4170', 7, '2024-11-01 19:22:44', '4.9')
- (1390, 'P4251', 6, '2024-10-12 19:22:44', '2.7')
- (1391, 'P4251', 1, '2024-10-10 19:22:44', '8.2')
- (1392, 'P4251', 2, '2024-10-19 19:22:44', '5.5')
- (1393, 'P4251', 4, '2024-10-04 19:22:44', '8.7')
- (1394, 'P4251', 5, '2024-10-20 19:22:44', '3.4')
- (1395, 'P4431', 1, '2024-10-27 19:22:44', '3.9')
- (1396, 'P4431', 8, '2024-10-22 19:22:44', '7.8')
- (1397, 'P4431', 9, '2024-10-24 19:22:44', '460')
- (1398, 'P4431', 7, '2024-10-12 19:22:44', '9.6')
- (1399, 'P4431', 6, '2024-10-11 19:22:44', '2.3')
- (1400, 'P4954', 9, '2024-10-14 19:22:44', '380')
- (1401, 'P4954', 7, '2024-10-14 19:22:44', '9.2')

- (1402, 'P4954', 4, '2024-10-24 19:22:44', '5.3')
- (1403, 'P5441', 3, '2024-10-17 19:22:44', '4.0')
- (1404, 'P5441', 8, '2024-10-05 19:22:44', '3.4')
- (1405, 'P5441', 5, '2024-10-09 19:22:44', '4.7')
- (1406, 'P5441', 7, '2024-11-02 19:22:44', '9.8')
- (1407, 'P6964', 6, '2024-10-17 19:22:44', '2.8')
- (1408, 'P6964', 1, '2024-10-18 19:22:44', '4.3')
- (1409, 'P6964', 9, '2024-10-23 19:22:44', '380')
- (1410, 'P6964', 9, '2024-10-06 19:22:44', '520')
- (1411, 'P6964', 7, '2024-11-01 19:22:44', '9.9')
- (1412, 'P7428', 8, '2024-10-09 19:22:44', '6.3')
- (1413, 'P7428', 4, '2024-10-06 19:22:44', '3.2')
- (1414, 'P7428', 5, '2024-10-12 19:22:44', '9.4')
- (1415, 'P7428', 7, '2024-10-30 19:22:44', '2.6')
- (1416, 'P8983', 1, '2024-10-20 19:22:44', '2.7')
- (1417, 'P8983', 7, '2024-10-06 19:22:44', '8.8')
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- (1420, 'P9166', 3, '2024-10-22 19:22:44', '6.4')
- (1421, 'P9166', 4, '2024-10-22 19:22:44', '4.5')
- (1422, 'P9203', 7, '2024-10-21 19:22:44', '5.5')
- (1423, 'P9203', 9, '2024-10-22 19:22:44', '690')
- (1424, 'P9794', 2, '2024-10-31 19:22:44', '4.1')
- (1425, 'P9794', 6, '2024-10-07 19:22:44', '8.1')
- (1426, 'P9794', 4, '2024-10-05 19:22:44', '3.5')

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(1440, 'P9166', None, '2022-11-13', '3.9532749417725324	1')
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(1442, 'P9166', None, '2022-11-13', '6.704128707108248')	)
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- (1763, 'P4251', 5, '2024-11-07', '23')
- (1764, 'P4251', 3, '2024-11-08', '1.1')
- (1765, 'P4251', 4, '2024-11-08', '4.9')
- (1766, 'P4251', 1, '2024-11-08', '10.3')
- (1767, 'P4251', 2, '2024-11-08', '133')
- (1768, 'P4251', 5, '2024-11-08', '34')
- (1769, 'P4251', 3, '2024-11-09', '0.8')
- (1770, 'P4251', 4, '2024-11-09', '4.8')
- (1771, 'P4251', 1, '2024-11-09', '10.0')
- (1772, 'P4251', 2, '2024-11-09', '71')
- (1773, 'P4251', 5, '2024-11-09', '39')
- (1774, 'P4431', 3, '2024-11-05', '0.9')
- (1775, 'P4431', 4, '2024-11-05', '3.8')
- (1776, 'P4431', 1, '2024-11-05', '10.4')

(1777, 'P4431', 2, '2024-11-05', '91')

(1778, 'P4431', 5, '2024-11-05', '23')

(1779, 'P4431', 3, '2024-11-06', '0.8')

(1780, 'P4431', 4, '2024-11-06', '4.6')

(1781, 'P4431', 1, '2024-11-06', '8.5')

(1782, 'P4431', 2, '2024-11-06', '93')

(1783, 'P4431', 5, '2024-11-06', '14')

(1784, 'P4431', 3, '2024-11-07', '1.1')

(1785, 'P4431', 4, '2024-11-07', '3.7')

(1786, 'P4431', 1, '2024-11-07', '8.9')

(1787, 'P4431', 2, '2024-11-07', '114')

(1788, 'P4431', 5, '2024-11-07', '37')

(1789, 'P4431', 3, '2024-11-08', '1.0')

(1790, 'P4431', 4, '2024-11-08', '4.4')

(1791, 'P4431', 1, '2024-11-08', '8.9')

(1792, 'P4431', 2, '2024-11-08', '116')

(1793, 'P4431', 5, '2024-11-08', '13')

(1794, 'P4431', 3, '2024-11-09', '0.8')

(1795, 'P4431', 4, '2024-11-09', '4.8')

(1796, 'P4431', 1, '2024-11-09', '7.3')

(1797, 'P4431', 2, '2024-11-09', '111')

(1798, 'P4431', 5, '2024-11-09', '14')

(1799, 'P4954', 3, '2024-11-05', '1.1')

(1800, 'P4954', 4, '2024-11-05', '4.5')

(1801, 'P4954', 1, '2024-11-05', '7.1')

- (1802, 'P4954', 2, '2024-11-05', '76')
- (1803, 'P4954', 5, '2024-11-05', '39')
- (1804, 'P4954', 3, '2024-11-06', '1.1')
- (1805, 'P4954', 4, '2024-11-06', '4.5')
- (1806, 'P4954', 1, '2024-11-06', '9.8')
- (1807, 'P4954', 2, '2024-11-06', '96')
- (1808, 'P4954', 5, '2024-11-06', '14')
- (1809, 'P4954', 3, '2024-11-07', '0.9')
- (1810, 'P4954', 4, '2024-11-07', '3.6')
- (1811, 'P4954', 1, '2024-11-07', '10.7')
- (1812, 'P4954', 2, '2024-11-07', '71')
- (1813, 'P4954', 5, '2024-11-07', '12')
- (1814, 'P4954', 3, '2024-11-08', '0.8')
- (1815, 'P4954', 4, '2024-11-08', '4.7')
- (1816, 'P4954', 1, '2024-11-08', '9.5')
- (1817, 'P4954', 2, '2024-11-08', '139')
- (1818, 'P4954', 5, '2024-11-08', '39')
- (1819, 'P4954', 3, '2024-11-09', '0.8')
- (1820, 'P4954', 4, '2024-11-09', '4.5')
- (1821, 'P4954', 1, '2024-11-09', '8.6')
- (1822, 'P4954', 2, '2024-11-09', '108')
- (1823, 'P4954', 5, '2024-11-09', '20')
- (1824, 'P1880', 3, '2024-11-05', '0.7')
- (1825, 'P1880', 4, '2024-11-05', '4.0')
- (1826, 'P1880', 1, '2024-11-05', '9.3')

- (1827, 'P1880', 2, '2024-11-05', '106')
- (1828, 'P1880', 5, '2024-11-05', '24')
- (1829, 'P1880', 3, '2024-11-06', '1.1')
- (1830, 'P1880', 4, '2024-11-06', '3.8')
- (1831, 'P1880', 1, '2024-11-06', '8.4')
- (1832, 'P1880', 2, '2024-11-06', '79')
- (1833, 'P1880', 5, '2024-11-06', '28')
- (1834, 'P1880', 3, '2024-11-07', '0.7')
- (1835, 'P1880', 4, '2024-11-07', '4.5')
- (1836, 'P1880', 1, '2024-11-07', '10.4')
- (1837, 'P1880', 2, '2024-11-07', '130')
- (1838, 'P1880', 5, '2024-11-07', '21')
- (1839, 'P1880', 3, '2024-11-08', '0.9')
- (1840, 'P1880', 4, '2024-11-08', '4.2')
- (1841, 'P1880', 1, '2024-11-08', '7.5')
- (1842, 'P1880', 2, '2024-11-08', '104')
- (1843, 'P1880', 5, '2024-11-08', '18')
- (1844, 'P1880', 3, '2024-11-09', '0.8')
- (1845, 'P1880', 4, '2024-11-09', '4.4')
- (1846, 'P1880', 1, '2024-11-09', '10.4')
- (1847, 'P1880', 2, '2024-11-09', '118')
- (1848, 'P1880', 5, '2024-11-09', '30')
- (1849, 'P6964', 3, '2024-11-05', '1.0')
- (1850, 'P6964', 4, '2024-11-05', '3.7')
- (1851, 'P6964', 1, '2024-11-05', '9.9')

- (1852, 'P6964', 2, '2024-11-05', '88')
- (1853, 'P6964', 5, '2024-11-05', '5000')
- (1854, 'P6964', 3, '2024-11-06', '1.0')
- (1855, 'P6964', 4, '2024-11-06', '4.3')
- (1856, 'P6964', 1, '2024-11-06', '10.4')
- (1857, 'P6964', 2, '2024-11-06', '125')
- (1858, 'P6964', 5, '2024-11-06', '500')
- (1859, 'P6964', 3, '2024-11-07', '1.3')
- (1860, 'P6964', 4, '2024-11-07', '4.9')
- (1861, 'P6964', 1, '2024-11-07', '7.8')
- (1862, 'P6964', 2, '2024-11-07', '125')
- (1863, 'P6964', 5, '2024-11-07', '5000')
- (1864, 'P6964', 3, '2024-11-08', '1.0')
- (1865, 'P6964', 4, '2024-11-08', '4.4')
- (1866, 'P6964', 1, '2024-11-08', '7.8')
- (1867, 'P6964', 2, '2024-11-08', '131')
- (1868, 'P6964', 5, '2024-11-08', '5000')
- (1869, 'P6964', 3, '2024-11-09', '1.0')
- (1870, 'P6964', 4, '2024-11-09', '3.5')
- (1871, 'P6964', 1, '2024-11-09', '8.4')
- (1872, 'P6964', 2, '2024-11-09', '138')
- (1873, 'P6964', 5, '2024-11-09', '5000')
- (1874, 'P5441', 3, '2024-11-05', '0.8')
- (1875, 'P5441', 4, '2024-11-05', '3.8')
- (1876, 'P5441', 1, '2024-11-05', '7.6')

(1877, 'P5441', 2, '2024-11-05', '127')

(1878, 'P5441', 5, '2024-11-05', '30')

(1879, 'P5441', 3, '2024-11-06', '1.0')

(1880, 'P5441', 4, '2024-11-06', '3.6')

(1881, 'P5441', 1, '2024-11-06', '8.8')

(1882, 'P5441', 2, '2024-11-06', '117')

(1883, 'P5441', 5, '2024-11-06', '36')

(1884, 'P5441', 3, '2024-11-07', '1.1')

(1885, 'P5441', 4, '2024-11-07', '3.7')

(1886, 'P5441', 1, '2024-11-07', '9.4')

(1887, 'P5441', 2, '2024-11-07', '127')

(1888, 'P5441', 5, '2024-11-07', '29')

(1889, 'P5441', 3, '2024-11-08', '1.3')

(1890, 'P5441', 4, '2024-11-08', '4.3')

(1891, 'P5441', 1, '2024-11-08', '9.3')

(1892, 'P5441', 2, '2024-11-08', '91')

(1893, 'P5441', 5, '2024-11-08', '36')

(1894, 'P5441', 3, '2024-11-09', '1.2')

(1895, 'P5441', 4, '2024-11-09', '4.9')

(1896, 'P5441', 1, '2024-11-09', '9.0')

(1897, 'P5441', 2, '2024-11-09', '116')

(1898, 'P5441', 5, '2024-11-09', '32')

(1899, 'P3835', 3, '2024-11-05', '1.3')

(1900, 'P3835', 4, '2024-11-05', '4.3')

(1901, 'P3835', 1, '2024-11-05', '10.8')

- (1902, 'P3835', 2, '2024-11-05', '92')
- (1903, 'P3835', 5, '2024-11-05', '27')
- (1904, 'P3835', 3, '2024-11-06', '0.7')
- (1905, 'P3835', 4, '2024-11-06', '4.6')
- (1906, 'P3835', 1, '2024-11-06', '10.2')
- (1907, 'P3835', 2, '2024-11-06', '135')
- (1908, 'P3835', 5, '2024-11-06', '32')
- (1909, 'P3835', 3, '2024-11-07', '0.9')
- (1910, 'P3835', 4, '2024-11-07', '4.5')
- (1911, 'P3835', 1, '2024-11-07', '9.4')
- (1912, 'P3835', 2, '2024-11-07', '115')
- (1913, 'P3835', 5, '2024-11-07', '22')
- (1914, 'P3835', 3, '2024-11-08', '0.9')
- (1915, 'P3835', 4, '2024-11-08', '3.7')
- (1916, 'P3835', 1, '2024-11-08', '10.7')
- (1917, 'P3835', 2, '2024-11-08', '133')
- (1918, 'P3835', 5, '2024-11-08', '19')
- (1919, 'P3835', 3, '2024-11-09', '1.1')
- (1920, 'P3835', 4, '2024-11-09', '3.8')
- (1921, 'P3835', 1, '2024-11-09', '9.0')
- (1922, 'P3835', 2, '2024-11-09', '125')
- (1923, 'P3835', 5, '2024-11-09', '35')
- (1924, 'P9203', 3, '2024-11-05', '1.3')
- (1925, 'P9203', 4, '2024-11-05', '3.7')
- (1926, 'P9203', 1, '2024-11-05', '7.6')

- (1927, 'P9203', 2, '2024-11-05', '75')
- (1928, 'P9203', 5, '2024-11-05', '16')
- (1929, 'P9203', 3, '2024-11-06', '1.0')
- (1930, 'P9203', 4, '2024-11-06', '4.3')
- (1931, 'P9203', 1, '2024-11-06', '10.6')
- (1932, 'P9203', 2, '2024-11-06', '91')
- (1933, 'P9203', 5, '2024-11-06', '36')
- (1934, 'P9203', 3, '2024-11-07', '1.2')
- (1935, 'P9203', 4, '2024-11-07', '4.3')
- (1936, 'P9203', 1, '2024-11-07', '8.3')
- (1937, 'P9203', 2, '2024-11-07', '98')
- (1938, 'P9203', 5, '2024-11-07', '28')
- (1939, 'P9203', 3, '2024-11-08', '1.1')
- (1940, 'P9203', 4, '2024-11-08', '3.7')
- (1941, 'P9203', 1, '2024-11-08', '11.0')
- (1942, 'P9203', 2, '2024-11-08', '105')
- (1943, 'P9203', 5, '2024-11-08', '32')
- (1944, 'P9203', 3, '2024-11-09', '1.0')
- (1945, 'P9203', 4, '2024-11-09', '4.9')
- (1946, 'P9203', 1, '2024-11-09', '9.8')
- (1947, 'P9203', 2, '2024-11-09', '122')
- (1948, 'P9203', 5, '2024-11-09', '21')
- (1949, 'P1351', 3, '2024-11-05', '0.9')
- (1950, 'P1351', 4, '2024-11-05', '4.5')
- (1951, 'P1351', 1, '2024-11-05', '10.9')

(1952, 'P1351', 2, '2024-11-05', '88')

(1953, 'P1351', 5, '2024-11-05', '32')

(1954, 'P1351', 3, '2024-11-06', '1.0')

(1955, 'P1351', 4, '2024-11-06', '3.6')

(1956, 'P1351', 1, '2024-11-06', '10.0')

(1957, 'P1351', 2, '2024-11-06', '110')

(1958, 'P1351', 5, '2024-11-06', '33')

(1959, 'P1351', 3, '2024-11-07', '0.9')

(1960, 'P1351', 4, '2024-11-07', '4.6')

(1961, 'P1351', 1, '2024-11-07', '10.0')

(1962, 'P1351', 2, '2024-11-07', '115')

(1963, 'P1351', 5, '2024-11-07', '36')

(1964, 'P1351', 3, '2024-11-08', '1.2')

(1965, 'P1351', 4, '2024-11-08', '4.7')

(1966, 'P1351', 1, '2024-11-08', '8.7')

(1967, 'P1351', 2, '2024-11-08', '96')

(1968, 'P1351', 5, '2024-11-08', '27')

(1969, 'P1351', 3, '2024-11-09', '0.7')

(1970, 'P1351', 4, '2024-11-09', '3.9')

(1971, 'P1351', 1, '2024-11-09', '7.1')

(1972, 'P1351', 2, '2024-11-09', '90')

(1973, 'P1351', 5, '2024-11-09', '29')

(1974, 'P9999', 1, '2024-11-20 00:00:00', '11.07')

(1975, 'P9999', 1, '2024-11-21 00:00:00', '6.43')

(1976, 'P9999', 1, '2024-11-22 00:00:00', '9.09')

- (1977, 'P9999', 2, '2024-11-20 00:00:00', '128.45')
- (1978, 'P9999', 2, '2024-11-21 00:00:00', '76.14')
- (1979, 'P9999', 2, '2024-11-22 00:00:00', '114.05')
- (1980, 'P9999', 3, '2024-11-20 00:00:00', '1.0')
- (1981, 'P9999', 3, '2024-11-21 00:00:00', '0.7')
- (1982, 'P9999', 3, '2024-11-22 00:00:00', '1.2')
- (1983, 'P9999', 4, '2024-11-20 00:00:00', '4.62')
- (1984, 'P9999', 4, '2024-11-21 00:00:00', '4.1')
- (1985, 'P9999', 4, '2024-11-22 00:00:00', '4.23')
- (1986, 'P9999', 5, '2024-11-20 00:00:00', '8.56')
- (1987, 'P9999', 5, '2024-11-21 00:00:00', '4.55')
- (1988, 'P9999', 5, '2024-11-22 00:00:00', '10.99')
- (1989, 'P9999', 6, '2024-11-20 00:00:00', '15.21')
- (1990, 'P9999', 6, '2024-11-21 00:00:00', '14.07')
- (1991, 'P9999', 6, '2024-11-22 00:00:00', '15.44')
- (1992, 'P9999', 7, '2024-11-20 00:00:00', '193.34')
- (1993, 'P9999', 7, '2024-11-21 00:00:00', '403.24')
- (1994, 'P9999', 7, '2024-11-22 00:00:00', '215.73')
- (1995, 'P9999', 8, '2024-11-20 00:00:00', '170.63')
- (1996, 'P9999', 8, '2024-11-21 00:00:00', '162.16')
- (1997, 'P9999', 8, '2024-11-22 00:00:00', '164.46')
- (1998, 'P9999', 9, '2024-11-20 00:00:00', '393.48')
- (1999, 'P9999', 9, '2024-11-21 00:00:00', '406.51')
- (2000, 'P9999', 9, '2024-11-22 00:00:00', '433.59')

#### Table: Lab\_Ranges

Columns: lab\_range\_id, lab\_name, min\_normal, max\_normal, critical\_min, critical\_max, condition\_id

- (1, 'CBC', 4.0, 12.0, 2.0, 15.0, None)
- (2, 'Blood Glucose', 70.0, 140.0, 50.0, 300.0, None)
- (3, 'Creatinine', 0.5, 1.2, 0.2, 2.5, None)
- (4, 'Potassium', 3.5, 5.0, 2.5, 6.5, None)
- (5, 'Liver Enzymes', 0.0, 50.0, 0.0, 100.0, None)
- (6, 'Hemoglobin', 12.0, 18.0, 8.0, 20.0, None)
- (7, 'Platelets', 5.0, 12.5, 1.0, 500.0, None)
- (8, 'Cholesterol', 100.0, 200.0, 80.0, 300.0, None)
- (9, 'QTc', 350.0, 470.0, 300.0, 500.0, None)

#### **Table: Medication\_Interactions**

Columns: interaction\_id, medication\_1\_id, medication\_2\_id, interaction\_type, description

- (1, 1, 5, 'Major', 'Increased bleeding risk')
- (2, 2, 5, 'Moderate', 'Reduced kidney function')
- (3, 4, 12, 'Major', 'Increased risk of liver damage')
- (4, 6, 1, 'Major', 'Increased bleeding risk')
- (5, 3, 12, 'Moderate', 'Risk of severe bradycardia')
- (6, 9, 12, 'Major', 'Increased digoxin toxicity risk')
- (7, 7, 8, 'Moderate', 'QT prolongation risk')
- (8, 11, None, 'Moderate', 'May mask hypoglycemia symptoms')

- (9, 13, 1, 'Major', 'Increased bleeding risk')
- (10, 14, 2, 'Moderate', 'Increased risk of electrolyte imbalance')
- (11, 17, 5, 'Major', 'Increased risk of kidney toxicity')
- (12, 15, 3, 'Moderate', 'Severe hypotension risk')
- (13, 16, 6, 'Moderate', 'Increased bleeding risk')
- (14, 6, 1, 'High', 'Increased bleeding risk with concurrent use')
- (15, None, None, 'Moderate', 'Prednisone may increase blood glucose levels')
- (16, 9, 12, 'High', 'Amiodarone increases serum levels of Digoxin')
- (17, 15, None, 'High', 'Severe hypotension risk with concurrent use')
- (18, None, None, 'Moderate', 'May reduce renal function in susceptible individuals')
- (19, None, None, 'High', 'Increased risk of serotonin syndrome')
- (20, None, 6, 'Moderate', 'Certain antibiotics can increase INR with warfarin')
- (21, None, None, 'High', 'Grapefruit juice increases statin levels, risk of myopathy')
- (22, None, None, 'High', 'Diuretics can increase lithium levels, leading to toxicity')
- (23, None, None, 'High', 'Ciprofloxacin can increase Theophylline levels')
- (24, 1, 6, 'Major', 'Increased bleeding risk')
- (25, 5, 2, 'Moderate', 'Risk of kidney damage')
- (26, 3, 12, 'Major', 'Potential severe bradycardia')
- (27, 11, 3, 'Moderate', 'Masks symptoms of hypoglycemia')
- (28, 9, 12, 'Major', 'Increased risk of digoxin toxicity')
- (29, 14, 1, 'Moderate', 'Risk of reduced diuretic effectiveness')
- (30, 13, 6, 'Major', 'Increased bleeding risk')
- (31, 4, 12, 'Moderate', 'Increased risk of myopathy')
- (37, 15, 18, 'Major', 'Severe hypotension risk')

#### **Table: Condition\_Contraindications**

Columns: contraindication\_id, condition\_id, medication\_id, risk\_level, details

- (1, 3, 5, 'High', 'NSAIDs may worsen heart failure')
- (2, 5, None, 'Moderate', 'Risk of lactic acidosis in CKD')
- (3, 12, 1, 'High', 'Increased bleeding risk in liver disease')
- (4, 1, None, 'Moderate', 'Steroids can increase blood glucose levels')
- (9, 8, None, 'Moderate', 'May exacerbate bronchoconstriction in COPD patients')
- (10, 2, None, 'High', 'Decongestants may raise blood pressure')
- (11, 10, 1, 'High', 'Aspirin can trigger asthma symptoms')
- (12, None, 5, 'High', 'NSAIDs can exacerbate ulcer formation')
- (13, 4, 9, 'Moderate', 'Risk of digoxin toxicity in certain conditions')
- (14, None, None, 'High', 'Interaction with nitrates can cause severe hypotension')
- (15, 11, 5, 'High', 'NSAIDs may worsen kidney disease')
- (17, 12, None, 'High', 'Risk of liver toxicity')
- (18, 10, None, 'High', 'May exacerbate asthma symptoms')
- (19, 1, None, 'Moderate', 'May increase blood glucose levels')
- (20, 4, 9, 'Moderate', 'Risk of digoxin toxicity')
- (26, 16, 4, 'Moderate', 'Increased risk of liver toxicity')

### Table: ADE\_Monitoring

Columns: ade\_id, patient\_id, medication\_id, timestamp, description, resolved

(1, 'P4170', 8, '2024-09-26 00:00:00', 'Synthetic adverse drug event', 1)

```
(2, 'P4431', 13, '2024-05-01 00:00:00', 'Synthetic adverse drug event', 0)
(3, 'P2142', 3, '2023-12-08', 'Metoprolol adverse event: bradycardia_and_hypotension', 1)
(4, 'P3835', 3, '2024-08-28', 'Metoprolol adverse event: hypotension', 1)
(5, 'P9166', 3, '2022-06-15', 'Symptomatic bradycardia on metoprolol', 1)
(6, 'P9166', 12, '2023-02-20', 'QTc prolongation on amiodarone', 1)
(7, 'P9166', 3, '2023-05-15', 'Symptomatic bradycardia (HR 45)', 1)
(8, 'P7428', 12, '2023-06-20', 'QTc prolongation (520ms)', 1)
(9, 'P4170', 2, '2023-07-10', 'Acute kidney injury (Cr 2.8)', 1)
(10, 'P8983', 7, '2023-08-05', 'QTc prolongation (515ms)', 1)
(11, 'P2142', 17, '2023-09-15', 'AKI (Cr 2.5)', 1)
(12, 'P9794', 9, '2023-10-01', 'Bradycardia (HR 42)', 1)
(13, 'P4251', 12, '2023-11-15', 'Hepatitis (AST 250, ALT 280)', 1)
(14, 'P4431', 3, '2023-12-20', 'Hypotension (85/50)', 1)
(15, 'P4954', 2, '2024-01-10', 'Hyperkalemia (K 6.2)', 1)
(16, 'P1880', 7, '2024-02-15', 'Metabolic syndrome', 1)
(17, 'P6964', 6, '2024-03-01', 'INR elevation (4.8)', 1)
(18, 'P5441', 17, '2024-04-10', 'Nephrotoxicity (Cr 2.2)', 1)
(19, 'P3835', 9, '2024-05-15', 'Digoxin toxicity (2.8)', 1)
(20, 'P9203', 3, '2024-06-20', 'Bradycardia (HR 48)', 1)
(21, 'P1351', 12, '2024-07-15', 'Thyroid dysfunction (TSH 0.1)', 1)
```

#### Table: Risk\_Factors

Columns: risk\_factor\_id, patient\_id, risk\_factor, severity, notes

- (1, 'P1351', 'Hypertension', None, None)
- (2, 'P1351', 'Family History of Heart Disease', None, None)
- (3, 'P1880', 'Family History of Heart Disease', None, None)
- (4, 'P1880', 'Smoking', None, None)
- (5, 'P1880', 'Obesity', None, None)
- (6, 'P2142', 'Alcohol Use', None, None)
- (7, 'P2142', 'Family History of Heart Disease', None, None)
- (8, 'P2142', 'Smoking', None, None)
- (9, 'P3835', 'Family History of Heart Disease', None, None)
- (10, 'P3835', 'Smoking', None, None)
- (11, 'P4170', 'Family History of Heart Disease', None, None)
- (12, 'P4170', 'Hypertension', None, None)
- (13, 'P4170', 'Obesity', None, None)
- (14, 'P4251', 'Alcohol Use', None, None)
- (15, 'P4431', 'Hypertension', None, None)
- (16, 'P4431', 'Smoking', None, None)
- (17, 'P4431', 'Obesity', None, None)
- (18, 'P4954', 'Alcohol Use', None, None)
- (19, 'P5441', 'Alcohol Use', None, None)
- (20, 'P5441', 'Family History of Heart Disease', None, None)
- (21, 'P5441', 'Diabetes', None, None)
- (22, 'P6964', 'Obesity', None, None)
- (23, 'P7428', 'Hypertension', None, None)
- (24, 'P7428', 'Obesity', None, None)
- (25, 'P7428', 'Smoking', None, None)

- (26, 'P8983', 'Diabetes', None, None)
- (27, 'P8983', 'Hypertension', None, None)
- (28, 'P8983', 'Family History of Heart Disease', None, None)
- (29, 'P9166', 'Diabetes', None, None)
- (30, 'P9166', 'Family History of Heart Disease', None, None)
- (31, 'P9166', 'Alcohol Use', None, None)
- (32, 'P9203', 'Alcohol Use', None, None)
- (33, 'P9203', 'Smoking', None, None)
- (34, 'P9203', 'Hypertension', None, None)
- (35, 'P9794', 'Hypertension', None, None)
- (36, 'P9794', 'Diabetes', None, None)
- (37, 'P9794', 'Smoking', None, None)

#### **Table: Treatment\_History**

Columns: treatment\_id, patient\_id, timestamp, medication\_id, condition\_id, outcome, treatment\_type, start\_date, end\_date

- (1, 'P1351', None, None, None, None, 'Chemotherapy', '2023-07-29', '2023-08-02')
- (2, 'P1351', None, None, None, None, 'Radiation Therapy', '2024-02-10', '2024-02-13')
- (3, 'P1351', None, None, None, None, 'Surgery', '2023-03-30', '2023-04-01')
- (4, 'P1880', None, None, None, None, 'Immunotherapy', '2023-11-26', '2023-11-29')
- (5, 'P2142', None, None, None, None, 'Antibiotic Therapy', '2023-04-15', '2023-04-24')
- (6, 'P2142', None, None, None, None, 'Radiation Therapy', '2023-11-24', '2023-11-29')
- (7, 'P2142', None, None, None, None, 'Antibiotic Therapy', '2024-05-06', '2024-05-12')

- (8, 'P3835', None, None, None, None, 'Physical Therapy', '2023-06-15', '2023-06-20')
- (9, 'P4170', None, None, None, None, 'Chemotherapy', '2022-11-13', '2022-11-23')
- (10, 'P4170', None, None, None, None, 'Radiation Therapy', '2023-10-03', '2023-10-07')
- (11, 'P4251', None, None, None, None, 'Surgery', '2023-12-14', '2023-12-23')
- (12, 'P4431', None, None, None, None, 'Radiation Therapy', '2023-03-27', '2023-04-02')
- (13, 'P4431', None, None, None, None, 'Radiation Therapy', '2023-11-08', '2023-11-14')
- (14, 'P4954', None, None, None, None, 'Radiation Therapy', '2023-03-12', '2023-03-18')
- (15, 'P4954', None, None, None, None, 'Physical Therapy', '2023-04-07', '2023-04-11')
- (16, 'P5441', None, None, None, None, 'Physical Therapy', '2024-07-23', '2024-07-25')
- (17, 'P5441', None, None, None, None, 'Chemotherapy', '2023-02-06', '2023-02-10')
- (18, 'P5441', None, None, None, None, 'Antibiotic Therapy', '2024-07-10', '2024-07-14')
- (19, 'P6964', None, None, None, None, 'Chemotherapy', '2023-03-02', '2023-03-03')
- (20, 'P6964', None, None, None, None, 'Surgery', '2023-08-28', '2023-09-05')
- (21, 'P7428', None, None, None, None, 'Surgery', '2024-05-06', '2024-05-13')
- (22, 'P7428', None, None, None, None, 'Surgery', '2023-10-25', '2023-11-03')
- (23, 'P8983', None, None, None, None, 'Surgery', '2022-11-11', '2022-11-20')
- (24, 'P8983', None, None, None, None, 'Immunotherapy', '2022-11-29', '2022-12-05')
- (25, 'P8983', None, None, None, None, 'Physical Therapy', '2024-07-08', '2024-07-13')
- (26, 'P9166', None, None, None, None, 'Immunotherapy', '2023-01-01', '2023-01-09')
- (27, 'P9166', None, None, None, None, 'Physical Therapy', '2023-01-24', '2023-02-02')
- (28, 'P9203', None, None, None, None, 'Physical Therapy', '2024-01-20', '2024-01-22')
- (29, 'P9203', None, None, None, None, 'Physical Therapy', '2023-05-18', '2023-05-20')
- (30, 'P9203', None, None, None, None, 'Immunotherapy', '2023-10-19', '2023-10-24')
- (31, 'P9794', None, None, None, None, 'Antibiotic Therapy', '2023-05-26', '2023-05-30')
- (32, 'P9794', None, None, None, None, 'Physical Therapy', '2023-03-01', '2023-03-09')

```
(33, 'P1001', None, 9, 3, 'Improvement', 'Chronic', '2023-01-01', '2023-06-01')
```

- (36, 'P1001', None, 9, 3, 'Improvement', 'Chronic', '2023-01-01', '2023-06-01')
- (37, 'P1001', None, 6, 4, 'Stable INR', 'Chronic', '2023-01-01', '2023-06-01')
- (38, 'P1001', None, 11, 1, 'Glucose Controlled', 'Chronic', '2023-01-01', '2023-06-01')
- (39, 'P1001', None, 9, 3, 'Improvement', 'Chronic', '2023-01-01', '2023-06-01')
- (40, 'P1001', None, 6, 4, 'Stable INR', 'Chronic', '2023-01-01', '2023-06-01')
- (41, 'P1001', None, 11, 1, 'Glucose Controlled', 'Chronic', '2023-01-01', '2023-06-01')

#### **Table: Alert\_History**

Columns: alert\_id, patient\_id, timestamp, alert\_type, description, acknowledged, resolved

No data found in this table.