Case Study 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **RUMAH SAKIT “INTERNASIONAL”**  **Formulir Pemberian Obat** | | | | | | | |
| **No. Registrasi Pasien: P101012** | | | | | | | |
| Nama Pasien : Budiman No. Bangsal : R101  Tempat/tgl Lahir : Jakarta 13 Feb 1980 Nama Bangsal : Merak  Alamat : Jl. Cempaka No. Tempat Tidur : 45 | | | | | | | |
| No. Obat | Nama Obat | Keterangan | Dosis | Metode  Pemberian | Pemakaian Per hari | Tanggal  Mulai | Tangal  Selesai |
| 10201 | Paracetamol | Analgetik | 10 mg/ml | Oral | 50 | 1/12/19 | 7/12/19 |
| 10301 | Amoxilin | Antibiotika | 0.5 mg/ml | IV | 10 | 1/02/19 | 5/02/19 |
| 10201 | Paracetamol | Analgetik | 10 mg/ml | Oral | 10 | 25/04/19 | 2/05/19 |

1. Ubah menjadi Un Normalized Table dari form di atas
2. Tentukan Functional Dependency (ketergantungan fungsional) berdasarkan form di atas. Gunakan asumsi Anda.
3. Jelaskan dan gambarkan proses normalisasi 1NF s.d 3 NF
4. Tentukan PK dan FK setiap tabel yg dihasilkan

Jawaban:

Nomor 1:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NoRegPas** | **NamaPas** | **TTL** | **Alamat** | **NoBangsal** | **NamaBangsal** | **NoTT** | **NoObat** | **NamaObat** | **Ket** | **Dosis** | **MetPemb** | **PPH** | **TglM** | **TglS** |
| P101012 | Budiman | Jakarta 13 Feb 2020 | Jl. Cempaka | R101 | Merak | 45 | 10201 | Paracetamol | Analgetic | 10mg/ml | Oral | 50 | 1/12 | 7/12 |
| 10301 | Amoxilin | Antibiotik | 0.5mg/ml | IV | 10 | 1/02 | 5/02 |
| 10201 | Paracetamol | Analgetic | 10mg/ml | Oral | 10 | 25/04 | 2/05 |

Nomor 2

FD3: partial dep.

FD:

FD1

**NoRegPas, NoObat TglM**ànamaPas, TTL, Alamat, NoBangsal , NamaBangsal, NoTT, NamaObat, Ket, Dosis, MetPemb, PPH, TglS

FD2: partial dep.

FD4: Transitive dep.

Nomor 3

**1NF**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NoRegPas** | **NamaPas** | **TTL** | **Alamat** | **NoBangsal** | **NamaBangsal** | **NoTT** | **NoObat** | **NamaObat** | **Ket** | **Dosis** | **MetPemb** | **PPH** | **TglM** | **TglS** |
| P101012 | Budiman | Jakarta 13 Feb 2020 | Jl. Cempaka | R101 | Merak | 45 | 10201 | Paracetamol | Analgetic | 10mg/ml | Oral | 50 | 1/12 | 7/12 |
| P101012 | Budiman | Jakarta 13 Feb 2020 | Jl. Cempaka | R101 | Merak | 45 | 10301 | Amoxilin | Antibiotik | 0.5mg/ml | IV | 10 | 1/02 | 5/02 |
| P101012 | Budiman | Jakarta 13 Feb 2020 | Jl. Cempaka | R101 | Merak | 45 | 10201 | Paracetamol | Analgetic | 10mg/ml | Oral | 10 | 25/04 | 2/05 |

**2NF**

Obat

**NoObat**àNamaObat, Ket, Dosis, MetPemb

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NoObat** | **NamaObat** | **Ket** | **Dosis** | **MetPemb** |
| 10201 | Paracetamol | Analgetic | 10mg/ml | Oral |
| 10301 | Amoxilin | Antibiotik | 0.5mg/ml | IV |

Pasien

**NoRegPas** à NamaPas, TTL, Alamat

|  |  |  |  |
| --- | --- | --- | --- |
| **NoRegPas** | **NamaPas** | **TTL** | **Alamat** |
| P101012 | Budiman | Jakarta 13 Feb 2020 | Jl. Cempaka |
|  |  |  |  |
|  |  |  |  |

Perawatan

**NoRegPas,NoObat,TglM**àNoBangsal, NamaBangsal, NoTT, PPH, TglS.

FD: partial dep.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NoRegPas** | **NoBangsal** | **NamaBangsal** | **NoTT** | **NoObat** | **PPH** | **TglM** | **TglS** |
| P101012 | R101 | Merak | 45 | 10201 | 50 | 1/12 | 7/12 |
| P101012 | R101 | Merak | 45 | 10301 | 10 | 1/12 | 7/12 |
| P101012 | R101 | Merak | 45 | 10201 | 10 | 25/04 | 2/05 |

3NF

Perawatan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NoRegPas** | **NoObat** | **TglM** | **NoTT** | **TglS** | **PPH** | **NoBangsal** |
| P101012 | 10201 | 1/12 | 45 | 7/12 | 50 | R101 |
| P101012 | 10301 | 1/12 | 45 | 7/12 | 10 | R101 |
| P101012 | 10201 | 25/04 | 45 | 2/05 | 10 | R101 |

**NoRegPas, NoObat,TglM**àNoBangsal, NoTT, PPH, TglS

Bangsal

|  |  |
| --- | --- |
| **NoBangsal** | **NamaBangsal** |
| R101 | Merak |

NoBangsalàNamaBangsal

Obat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NoObat** | **NamaObat** | **Ket** | **Dosis** | **MetPemb** |
| 10201 | Paracetamol | Analgetic | 10mg/ml | Oral |
| 10301 | Amoxilin | Antibiotik | 0.5mg/ml | IV |

NoObatàNamaObat, Ket,Dosis, MetPemb

Pasien

|  |  |  |  |
| --- | --- | --- | --- |
| **NoRegPas** | **NamaPas** | **TTL** | **Alamat** |
| P101012 | Budiman | Jakarta 13 Feb 2020 | Jl. Cempaka |
|  |  |  |  |
|  |  |  |  |

NoRegPas à NamaPas, TTL, Alamat

**Nomor 4**

Perawatan : NoRegPas, NoObat, TglM (PK)

NoRegPas (FK) reference to Pasien

NoObat (FK) reference to Obat

NoBangsal (FK) reference to Bangsal

Obat : NoObat (PK)

Pasien : NoRegPasien (PK)

Bangsal : NoBangsal (PK)

Entity Relationship Diagram

1..M

1..1

Bangsal

1..M

1..M

0..M

1..1

Perawatan

Obat

Pasien