**Assignment 2 - Normalization**

**Deadline: 14 June 2023 6pm (via Online Learning)**

The following table shows the appointment record for Week 1, July 2023.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Patient Name** | **DOB** | **Age** | **Disease**  **Code** | **Disease** | **Descriptions** | **Staff ID** | **Medical Officer** | **Dept ID** | **Department** | **Appointment Date** | **Time** | **Treatment Note** |
| 3211 | Sandra Teo | 21/1/49 | 74 | 411 | Cardiovascular Disease | Chronic ischemic heart disease | 965 | Calliope Torres | C1 | Cardiology | 1/7/2023 | 8.30am | Consultation |
| 355 | Hypertension | High blood Pressure | 431 | Derek Shepherd | FM | Family Medicine | 1/7/2023 | 11.30am | Blood Test |
| 3241 | T.J. Right | 23/9/53 | 70 | 643 | Osteoarthritis | Degenerative joint disease or “wear and tear” arthritis | 675 | Izzie Stevens | R | Rheumatology | 1/7/2023 | 8.30am | Physiotherapy |
| 3214 | Tesse Williams | 24/1/50 | 73 | 311 | Diabetes Mellitus | A group of diseases that affect how the body uses blood sugar (glucose) | 754 | Christina Yang | E | Endocrinology | 4/7/2023 | 11.30am | Blood Test |
| 3125 | Justin Kimberly | 1/3/53 | 70 | 532 | Osteoporosis | A bone disease | 543 | Lee Ik Jun | R | Rheumatology | 4/7/2023 | 10.00am | Physiotherapy |
| Y678 | Dementia | Impaired ability to remember, think, or make decisions | 348 | Chae Song Hwa | N | Neurology | 5/7/2023 | 9.00am | TBD |
| 411 | Cardiovascular Disease | Chronic ischemic heart disease | 371 | Kim Jun Wan | C1 | Cardiology | 5/7/2023 | 11.00am | Consultation |
| 3443 | Whiti Kapea | 6/4/53 | 70 | Y678 | Dementia | Impaired ability to remember, think, or make decisions | 632 | Meredith Grey | N | Neurology | 5/7/2023 | 9.00am | MRI |
| 643 | Osteoarthritis | degenerative joint disease or “wear and tear” arthritis | 675 | Izzie Stevens | R | Rheumatology | 5/7/2023 | 11.00am | Consultation |
| 3278 | Ingrid Johnston | 8/8/57 | 66 | 411 | Cardiovascular Disease | Chronic ischemic heart disease | 371 | Kim Jun Wan | C1 | Cardiology | 6/7/2023 | 9.00am | Consultation |
| 355 | Hypertension | High blood Pressure | 431 | Derek Shepherd | FM | Family Medicine | 6/7/2023 | 2.00pm | X-Ray |

Identify all functional dependencies and perform a normalization process for the following table.