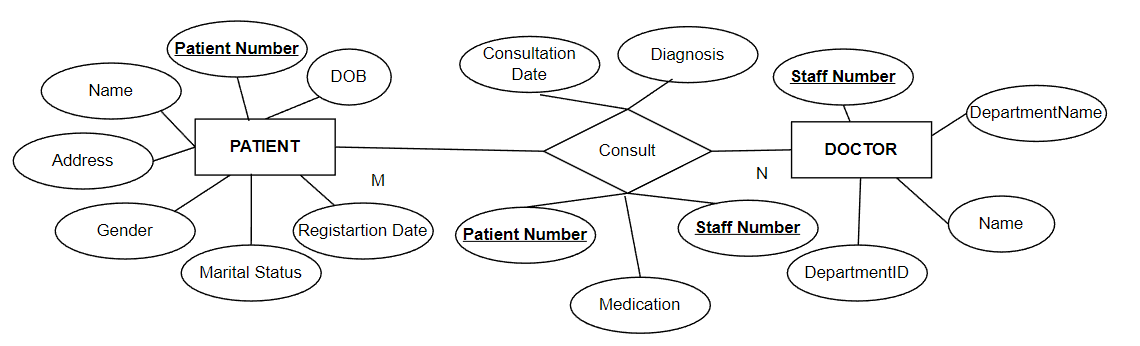
**Database Security – Tutorial / Lab 4**

1. Convert the ERD below to Relational Model in 3NF.



1. Normalize the table given below

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Customer Booking Bus Ticket** | | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Phone** | **Customer Name** | **Emergency Contact Phone** | **Emergency Contact Name** | **Ticket Booking Date Time** | **Ticket ID** | **Ticket Price (RM)** | **Seat Number** | **Bus Number** | **Bus Capacity** | **Departure Station** | **Arrival Station** | **Passenger name** | **Departure Date** | **Departure Time** |
| 019888 | Ali | 0198883 | Azrin | 30-Jan-23 | T1001 | 20.50 | 25 | ABC50 | 38 | KL | Ipoh | Azrin | 31-Jan-23 | 10:00am |
| 019888 | Ali | 0198883 | Azrin | 30-Jan-23 | T1002 | 20.50 | 26 | ABC50 | 38 | KL | Ipoh | Azran | 31-Jan-23 | 10:00am |
| 019888 | Ali | 0198883 | Azrin | 30-Jan-23 | T1003 | 20.50 | 27 | ABC50 | 38 | KL | Ipoh | Azrai | 31-Jan-23 | 10:00am |
| 018777 | Raj | 0187772 | Latha | 5-Feb-23 | T1004 | 31.50 | 2 | W10 | 40 | KL | Penang | Raj | 9-Feb-23 | 12:00pm |
| 017666 | Lim | 0176661 | Sam | 8-Feb-23 | T1005 | 31.50 | 2 | W10 | 40 | KL | Penang | Chong | 10-Feb-23 | 2:00pm |
| 017666 | Lim | 0176661 | Sam | 8-Feb-23 | T1006 | 31.50 | 3 | W10 | 40 | KL | Penang | Jason | 10-Feb-23 | 2:00pm |
| 014555 | Ahmed | 0145551 | Salim | 10-Feb-23 | T1007 | 20.50 | 7 | ABC50 | 38 | KL | Ipoh | Ahmed | 10-Feb-23 | 10:00am |