**Hospital Record Simulation**

**Departments**

There are 19 Department:

|  |  |
| --- | --- |
| **ID** | **Name** |
| 0 | IT |
| 1 | Finance |
| 2 | Administration |
| 3 | Laboratory |
| 4 | Pharmacy |
| 5 | Out Patients\_Ear-Nose-Throat |
| 6 | Out Patients\_Eyes |
| 7 | Out Patients\_Tooth |
| 8 | Out Patients\_Child |
| 9 | Out Patients\_Orthopedic |
| 10 | Out Patients\_Neurological |
| 11 | Out Patients\_Gynecological |
| 12 | Out Patients\_Diabetes |
| 13 | Out Patients\_Rheumatology |
| 14 | Out Patients\_Cancer |
| 15 | Emergency |
| 16 | In Patients\_Ward1 |
| 17 | In Patients\_Ward2 |
| 18 | In Patients\_Ward3 |

**Roles**

There are 12 roles:

|  |  |  |
| --- | --- | --- |
| **ID** | **Name** | **Code** |
| 0 | Head of IT | HIT |
| 1 | Technical Support | TS |
| 2 | Head of Finance | HF |
| 3 | Finance Staff | FS |
| 4 | Head of Administration | HA |
| 5 | Staff of Administration | SA |
| 6 | Head of Lab | HL |
| 7 | Lab Assistant | LA |
| 8 | Head of Pharmachy | HP |
| 9 | Pharmacy Assistant | PA |
| 10 | Doctor | DO |
| 11 | Nurse | NU |

**Shift Schedule**

There are two kinds of shifts:

1. The regular shift: from Monday to Friday 08.00-16.00
2. The three 8 hours shift (Everyday):
   1. Shift 1: 06.00-14.00
   2. Shift 2: 14.00-22.00
   3. Shift 1: 22.00-06.00

Employees in regular shift:

|  |  |  |
| --- | --- | --- |
| **ID** | **Department** | **Roles (number of employees)** |
| 0 | IT | HIT(1), TS(2) |
| 1 | Finance | HF(1), FS(4) |
| 2 | Administration | HA(1), SA(2) |
| 3 | Laboratory | HL(1), LA(5) |
| 4 | Pharmacy | HP(1), PA: 2 |
| 5 | Out Patients\_Ear-Nose-Throat | DO(1), NU(2) |
| 6 | Out Patients\_Eyes | DO(1), NU(2) |
| 7 | Out Patients\_Tooth | DO(1), NU(2) |
| 8 | Out Patients\_Child | DO(1), NU(2) |
| 9 | Out Patients\_Orthopedic | DO(1), NU(2) |
| 10 | Out Patients\_Neurological | DO(1), NU(2) |
| 11 | Out Patients\_Gynecological | DO(1), NU(2) |
| 12 | Out Patients\_Diabetes | DO(1), NU(2) |
| 13 | Out Patients\_Rheumatology | DO(1), NU(2) |
| 14 | Out Patients\_Cancer | DO(1), NU(2) |
| 16 | In Patients\_Ward1 | DO(1) |
| 17 | In Patients\_Ward2 | DO(1) |
| 18 | In Patients\_Ward3 | DO(1) |

Employee in three 8 hours shift:

|  |  |  |
| --- | --- | --- |
| **ID** | **Department** | **Roles (number of employees)** |
| 15 | Emergency | DO(2), NU(7) |
| 16 | In Patients\_Ward1 | NU(2) |
| 17 | In Patients\_Ward2 | NU(2) |
| 18 | In Patients\_Ward3 | NU(2) |

**Record period:**

Start of the record: 01/01/2019

End of the record: 31/12/2019

**Out patient flow**



**In patient flow**



**Emergency Flow**



**System Modules**

|  |  |
| --- | --- |
| **ID** | **Module Name** |
| 0 | Report |
| 1 | Finance |
| 2 | Patient Management |
| 3 | Laboratory Management |
| 4 | Pharmacy Management |

**Record Fields**

|  |  |  |
| --- | --- | --- |
| **Number** | **Filed Name** | **Description** |
| 1 | startAccessTime | The time employee start to acces the patient record. format = 'dd/mm/yyy HH:mm tt' |
| 2 | endAccessTime | The time employee end the patient record access. format = 'dd/mm/yyy HH:mm tt' |
| 3 | employeeID | The ID of the employee who access the patient record |
| 4 | roleID | The role of the employee who access the patient record |
| 5 | patientID | The ID of the patient whose record is being accessed by employee |
| 6 | activityID | The ID of the activity (1: Create, 2: Read, 3:Update, 4: Delete) |
| 7 | employeeDepartmentID | The department of the employee who access the patient record |
| 8 | employeeOrganizationID | The organization of the employee who access the patient record |
| 9 | osID | The OS of the computer used by the employee to access patient record |
| 10 | deviceID | The ID of the computer used by the employee to access patient record |
| 11 | browserID | The browser used by the employee to access patient record |
| 12 | ipAddress | The IP Address of the computer used by the employee to access patient record |
| 13 | ReasonID | The reason of employee access the patient record (optional) |
| 14 | shiftID | The ID of shift the employee belong to on the day of patient access record |
| 15 | siftStartDateTime | The start time of shift the employee belong to on the day of patient access record |
| 16 | siftEndDateTime | The end time of shift the employee belong to on the day of patient access record |
| 17 | CRUD | The ID of the activity (C: Create, R: Read, U:Update, D: Delete) |
| 18 | AccessControlStatus | Access Control Status |
| 19 | SessionID | The ID of the session access |
| 20 | AccessPatient\_Warnings | Warning for not usual access |
| 21 | ModuleUsed | The module acessed by the employee |