**Dental Office Database Design**

**By**

**Dhaval Pandya**

**NUID: 001356204**

Contents

[**Revision History:** 3](#_Toc23517695)

[**Introduction:** 4](#_Toc23517696)

[**Subjects:** 5](#_Toc23517697)

[**In-Scope:** 6](#_Toc23517698)

[**Out-Scope:** 8](#_Toc23517699)

[**High Level Design:** 9](#_Toc23517700)

[**Entities and Attributes:** 10](#_Toc23517701)

### **Revision History:**

|  |  |  |
| --- | --- | --- |
| Version | Change Description | Date |
| 1 | Initial Document | 10/14/2019 |
| 2 | Second Draft with Entities and Attribute details also Add missing business rules | 11/1/2019 |

### **Introduction:**

The objective of this project is to design Decision Support System for Dental Office that provide information about the dentist profile, patient information include patient personal details, patient treatment, patient appointment, patient billing, and dental treatment and disease

Dental Office is an organization that is responsible in providing a health medication and treatment for all types of dental patients. The traditional method means the customers need to fill in their details in registration form manually and the information will only keep in files. After the registration, the files will be placed in the rack and this will cause problems like taking a longer time to retrieve the information, make mistakes while writing or misplaced the files

Dental Office Management System is specially designed to let the clinic staff has a high efficiency management tools, computerized and systematic patient’s record, and detail of treatment records. This system also provide appointment feature, which allow staff to view the appointment that already made by dentist/Patient. Receptionist/Dentist can track all future appointments. Patient treatment module consists of the information about the tooth examination and record and list of treatment that has done. Apart from that, dental treatment and disease module provides information about the cause of tooth extraction and tooth filling.

The proposed system will save the effort and the time of patients from waiting to make the appointment as well as reduce the work of system administrator to access to information for report and easier to manage the appointment. The system administrator needs to maintain the records of patients. Patients should be able to know the availability of a particular date. They should be able to reserve the available rooms according to their needs in advance.

### **Subjects:**

**Dentist  :**

The Dentist subject area consists of various types of a dentist such as Orthodontist, Periodontist, etc. They will provide treatment to one or many Patients. Dentist subject area will store the basic detail of dentists such as license and certificate details. There are many assistant dentists associated with dentists. The Dentists will provide the prescription to patients and they can also create and modify the appointments with the patients

**Patient :**

The Patient Subject area will store the basic detail of the patients. It will include Medical history, Payment details, Insurance details, etc. The patient can book the appointment with the dentist at the different locations of a dentist’s office. The patient can get treatment from different dentists.

**Treatment :**

Patient Treatment Detail will store the information about the tooth examination and record and list of treatments that have done by the dentist during the treatment. Apart from this, it will record all the previous treatment information and allergy details if the patient has any. During the treatment, if the dentist will take an x-ray of the patient’s tooth then it will separately be stored in the file system

**Appointment  :**

The patient can book the appointment with the dentist if the dentist is available on a particular day at a specific location. The appointment detail entity will have detail such as date, time any special comments, etc. A patient cannot get treatment without an appointment.

**Prescription :**

The Dentist will provide the prescription to the patient. It will have disease and drug details. The Dentist can provide a prescription without an appointment. The Prescription will also contain the detail of drug content and intake frequency of the drugs.

**Inventory Management :**

Inventory management will track the detail of all the supplies and equipment. It will track the cost and availability of all the Equipment and supplies. It will also record the contract details with a vendor such as a purchase contract or maintenance contract. Apart from this, the user can easily track the detail of any equipment such as where it is located, is it functioning properly or not, etc.

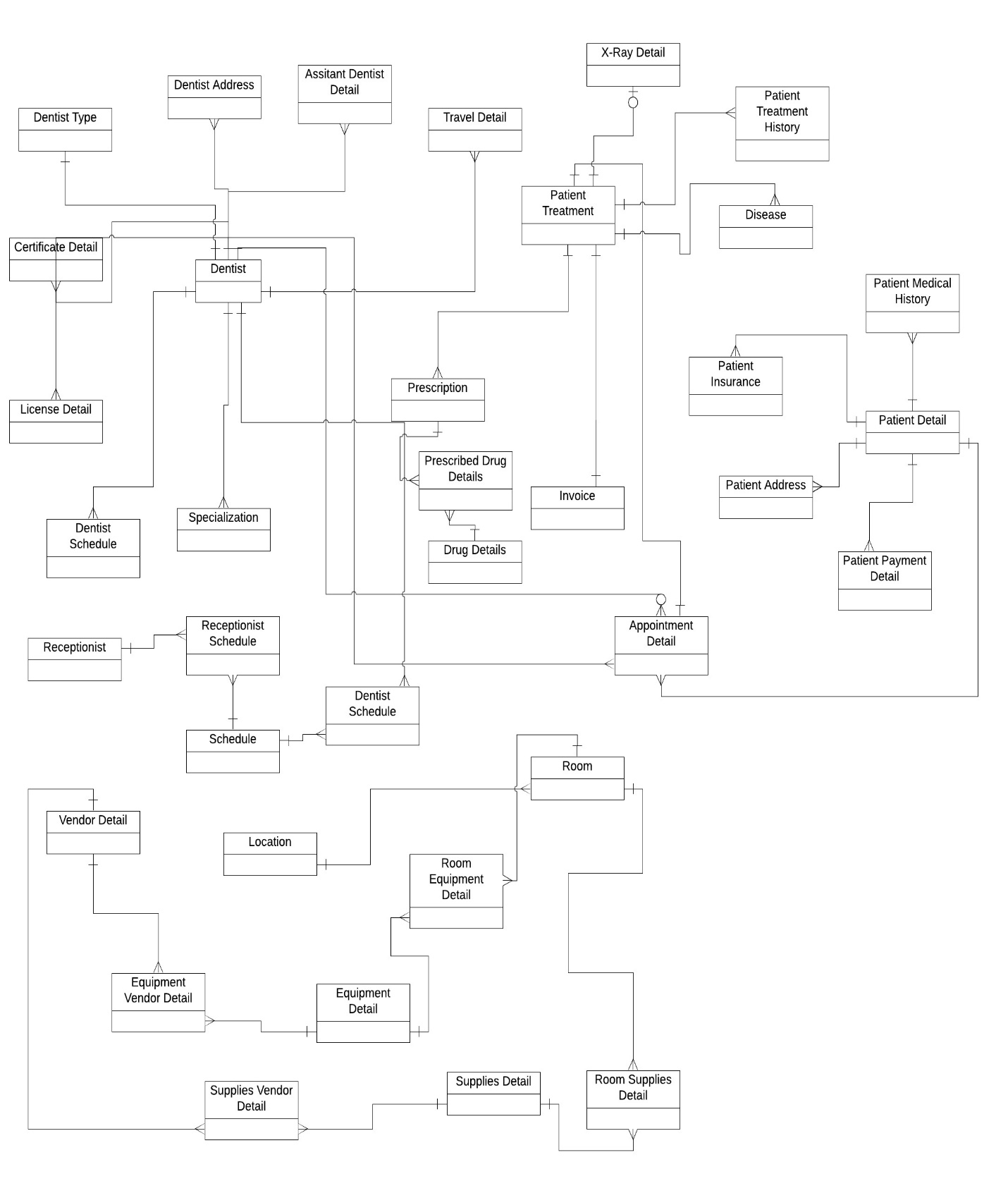
### **In-Scope:**

|  |  |  |
| --- | --- | --- |
| **ID** | **Rule** | **Area** |
| ISO1 | Dentist must be licensed by the state they are operating in to perform general dentistry. | Dentist |
| ISO2 | The dentist will provide the treatment to one/ Many patients There is various type of dental specialist such as Orthodontist, Periodontist, etc. | Dentist |
| ISO3 | Dentist will provide the medical prescription to the patient | Dentist ,Patient ,prescription |
| ISO4 | Dentist can treat a single patient at a time. | Treatment  ,Dentist  ,Patient |
| ISO5 | Dentist Should be identified by unique ID such as Dentist ID | Dentist |
| ISO6 | The Dentist Entity will store basic Information of Dentist such as Name , Phone Number , Address etc. | Dentist ,Address |
| ISO7 | The Dentist can provide service to multiple location and patient cannot book the appointment while dentist is travelling to one to another location. | Dentist, Location |
| ISO8 | Receptionist will save the Dentist Travel Detail in Dentist Travel history where we will store the details like Dentist ID, Service Location detail , Purpose , Travel Date , Expected Travel Start Time and end time etc. | Dentist, Travel Details |
| ISO9 | The Dentist can have one or multiple License according their specialization. | Dentist , License, Specialization |
| ISO10 | The Detail of license will be stored in License Detail Entity such as License Number, status, Type etc. | Dentist, License |
| ISO11 | The Specialization Entity will store the information of the doctor and detail of his/her specialization such as Dentist can be general dentist, orthodontist, prosthodontist etc. | Dentist, Specialization |
| ISO12 | The Assistant Dentist must have a certification or associate degree in an accredited dental assisting program. | Dentist |
| ISO13 | The Certification detail will be stored in Certification Entity which include certification Name ,Expiry date etc. | Dentist , Certificates |
| ISO14 | The Receptionist entity will manage the schedule details of the dentist and also track the availability of the rooms | Receptionist |
| ISO15 | Appointments booked by every patient will be recorded along with date, time and Dentist's details with whom the appointment is booked. | Appointment Detail |
| ISO16 | The Receptionist will book the appointments with Dentist and also provide the travel details if the dentist is travelling from one to another location. | Receptionist, Travel Detail, Dentist, Appointment Details |
| ISO17 | The Receptionist will also track the detail of patient visit at dental office. | Receptionist, Patient |
| ISO18 | The Dental office staff can work with multiple shifts such as morning ,evening ,night | Schedule |
| ISO19 | The patient Entity will store the basic detail of patient such as Name, Phone Number, and Emergency Number. | Patient Detail |
| ISO20 | Patient can have one or many addresses | Patient Detail, Patient Addresses |
| ISO21 | There are more than one treatment done by patient in the past. | Patient Treatment history |
| ISO22 | The system will store the details of various dental disease details | Disease Detail |
| ISO23 | Patient can book one or many appointments with one or many dentist in a single day with different time | Appointment Detail |
| ISO24 | The system will store the detail of the treatment given by dentist to the patient. | Treatment Detail |
| ISO25 | Patient can pay the bill via different payment mode and also can set the preferred payment mode. | Patient Payment Detail |
| ISO26 | The dentist can prescribe the drugs to the patient according to the disease. | Prescription |
| ISO27 | The patient can get prescriptions from multiple doctors | Prescription |
| ISO28 | The Patient can change the payment mode and also set the primary payment mode | Patient Payment Detail |
| ISO29 | Patient Require SSN for billing purpose | Patient detail |
| ISO30 | The system will save the demographic information of the patient such as Address. | Patient detail,Address |
| ISO31 | A Patient can have one or more home addresses. | Address |
| ISO32 | Patient Can have Emergency Contact Details | Patient detail |
| ISO33 | Details regarding number of upper teeth and number of lower teeth of the patient must be recorded. | Patient Detail |
| ISO34 | Patient history must contain previous medical history. | Patient Medical History |
| ISO35 | Multiple appointments can be made by a patient at multiple locations with different time | Appointment Detail |
| ISO36 | There is appointment status which will maintain the status of appointment such as Done, Canceled etc. | Appointment detail |
| ISO37 | An appointment has to be associated with a specific location via a room | Appointment detail |
| ISO38 | The Dentist can send the prescription to the patient without having any appointment. | Prescription |
| ISO39 | There is at least one invoice against the appointment | Invoice |
| ISO40 | The detail of all the charges should be recorded such as Visiting fee, Blood draw etc. | Invoice |
| ISO41 | The Dentist can work with multiple schedule at multiple location | Dentist Schedule |
| ISO42 | The Dentist can have one more than one appointment in his/her working hours | Dentist, Appointment Details |
| ISO43 | The System will track the all the Equipment Details such as vendor detail, Is the equipment portable etc. | Equipment Detail |
| ISO44 | The Vendor Detail will save the all the information of Equipment / Supplies vendor | Vendor Detail |
| ISO45 | The System will track the information of all the available supplies | Supplies Details |
| ISO46 | The System will track the contract details with Multiple vendors of equipment and supplies | Contract, Vendor |
| ISO47 | We will track the details of the equipment such as where it is located currently | Equipment Detail |
| ISO48 | Medical equipment can be bought from multiple vendors. | Vendor Detail |

### **Out-Scope:**

|  |  |
| --- | --- |
| OS1 | Feedback of Dentist treatment/appointment is not tracked. |
| OS2 | Salary of the employees working at the dental office. |
| OS3 | People who work in the office but do not participate in the care of a patient are not tracked in the system. |
| OS4 | Schedule of people working in dentist office is not captured. |
| OS5 | Calculations of the salaries for the Dentists. |
| OS6 | Walk-in: Patients go to the clinic without prior appointments. |
| OS7 | Payroll of the staff is not managed by system |
| OS8 | Any feedback measure regarding the clinic experience is not tracked. |
| OS9 | Finances of Dentist office are not tracked. |
| OS10 | Medicines for other diseases apart from dental problems |
| OS11 | No method for membership plans/discounts to the regular patients at this dental office |
| OS12 | Status of prescription is not required. The status will always be approved as it is prescribed by Dentist |
| OS13 | The System will not manage the payroll of the Employee |
| OS14 | The system will not manage the expenses of clinic such as electricity bill , Office lease details etc. |
| OS15 | The system will not record any equipment malfunction details |
| OS16 | The system will not save the equipment maintenance schedule |
| OS17 | The Patient cannot book multiple appointment at same time |

### **High Level Design:**



### **Entities and Attributes:**

**User:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| User ID | Integer | PK | Unique ID of User Table |
| User Name | varchar(50) |  | User Name |
| Password | varchar(50) |  | Password of the user |
| Is Active | char(1) |  | Is user is Active |

**Dentist:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Dentist ID | Integer | PK | Unique ID of Dentist |
| First Name | varchar(50) |  | First Name of Dentist |
| Last Name | varchar(50) |  | Last Name of dentist |
| Middle Name | varchar(50) |  | Middle Name of Dentist |
| Gender | char(1) |  | Gender of Dentist |
| SSN | varchar(10) |  | SSN of Dentist |
| Dentist Type ID | Integer | FK | FK of Dentist Type Table |
| User ID | Integer | FK | FK User Table |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Dentist Type:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Dentist Type ID | Integer | PK | Unique ID of Dentist Type |
| Name | varchar(100) |  | Dentist Type |
| Description | varchar(200) |  | Dentist Type Description |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Dentist Address:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Address ID | Integer | PK | Unique ID of Dentist Type |
| Dentist ID | Integer | FK | FK of Dentist |
| Street | varchar(200) |  | Dentist Type Description |
| State | varchar(50) |  |  |
| City | varchar(50) |  |  |
| Zip Code | varchar(6) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Travel Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Travel ID | Integer | PK | Unique ID of Travel Table |
| Dentist ID | Integer | FK | FK of Dentist |
| From Location ID | Integer | FK | FK of Location Table |
| To Location ID | Integer | FK | FK of Location Table |
| Travel Date | DateTime |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Certificate Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Certificate ID | Integer | PK | Unique ID of Certificate |
| Dentist ID | Integer | FK | FK of Dentist |
| Certificate Name | varchar(100) |  |  |
| Certificate Number | varchar(50) |  |  |
| Certificate Expire Date | DateTime |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**License Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| License ID | Integer | PK | Unique ID of Certificate |
| Dentist ID | Integer | FK | FK of Dentist |
| License Number | varchar(100) |  |  |
| License Expire Date | DateTime |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Schedule ID | Integer | PK | Unique ID of Schedule |
| Start Time | Time |  |  |
| End Time | Time |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Dentist Schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Dentist Schedule ID | Integer | PK | Unique ID of Dentist Schedule |
| Dentist ID | Integer | FK | FK of Dentist |
| Schedule ID | Integer | FK | FK of Schedule Table |
| License Expire Date | DateTime |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Patient Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Patient ID | Integer | PK | Unique ID of Patient |
| First Name | varchar(50) |  |  |
| Last Name | varchar(50) |  |  |
| Middle Name | varchar(50) |  |  |
| Phone Number | varchar(10) |  |  |
| Emergency Contact Number | varchar(10) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Patient Medical History:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Medical History ID | Integer | PK | Unique id of Medical History Table |
| Patient ID | Integer | FK | FK of Patient Detail Table |
| Allergy Detail | varchar(500) |  |  |
| Other Disease Detail | varchar(500) |  |  |
| Medical Reports File Path | varchar(200) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Patient Insurance Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Patient Insurance Detail ID | Integer | PK | Unique ID pf Patient Insurance Detail Table |
| Patient ID | Integer | FK | FK of Patient Detail Table |
| Insurance Number | varchar(100) |  |  |
| Insurance Cover Amount | Money |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Patient Address:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Patient Address ID | Integer | PK | Unique ID of Patient Address |
| Patient ID | Integer | FK | FK of Patient Detail Table |
| Street | varchar(100) |  |  |
| State | varchar(50) |  |  |
| City | varchar(50) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Patient Payment Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Patient Payment Detail ID | Integer | PK | Unique ID of Patient Payment Detail |
| Patient ID | Integer | FK | FK of Patient Detail Table |
| Payment Type | varchar(100) |  |  |
| Card Number | varchar(20) |  |  |
| Is Primary | char(1) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Appointment Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Appointment Detail ID | Integer | PK | Unique id of Appointment Detail |
| Dentist ID | Integer | FK | FK of Dentist Table |
| Patient ID | Integer | FK | FK of Patient Detail Table |
| Room Number | varchar(20) |  |  |
| Location ID | Integer | FK | FK of Location Table |
| Start Time | Time |  |  |
| End Time | Time |  |  |
| Appointment Date | Date |  |  |
| Comment | Varchar(200) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Patient Treatment Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Patient Treatment Detail ID | Integer | PK | Patient Treatment Detail ID |
| Appointment ID | Integer | FK | FK of Appointment Detail Table |
| Treatment Detail | varchar(500) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**X-Ray Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| X-Ray Detail ID | Integer | PK | X-Ray Detail ID |
| Treatment Detail ID | Integer | FK | FK of Treatment Detail Table |
| File Path | varchar(200) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Prescription:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Prescription ID | Integer | PK | Unique id of Prescription |
| Treatment Detail ID | Integer | FK | FK of Treatment Detail Table |
| Comment | varchar(200) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Drug Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Drug ID | Integer | PK | Unique id of Drug |
| Drug Name | varchar(200) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Prescribed Drug Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Prescription Drug ID | Integer | PK | Unique id of Prescription Drug Detail ID |
| Drug ID | Integer | FK | FK of Drug Detail Table |
| Prescription Detail ID | Integer | FK | FK of Prescription Detail table |
| Quantity | Integer |  |  |
| Frequency | Integer |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Vendor Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Vendor Detail ID | Integer | PK | Unique ID of Vendor Detail |
| Vendor Name | varchar(200) |  |  |
| Contact Number | varchar(10) |  |  |
| Address | varchar(200) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Location:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Location ID | Integer | PK | Unique ID of Location Table |
| Street | varchar(200) |  |  |
| State | varchar(50) |  |  |
| City | varchar(50) |  |  |
| Zip code | varchar(7) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Room:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Room ID | Integer | PK | Unique ID of Room Table |
| Location ID | Integer |  |  |
| Room Number | Varchar(10) |  |  |
| Floor | Integer |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Equipment Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Equipment Detail ID | Integer | PK | Unique ID of Equipment Detail  Table |
| Equipment Name | Integer |  |  |
| Equipment Type | Varchar(10) |  |  |
| Is Portable | Integer |  |  |
| Vendor ID | Integer | FK | FK of Vendor Table |
| Contract Detail ID | Integer |  |  |
| Total Quantity | Integer |  |  |
| Description | Varchar(500) |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Room Equipment Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Room Equipment Detail ID | Integer | PK | Room Equipment Detail ID |
| Room ID | Integer | FK | FK of Room Table |
| Equipment Detail ID | Integer | FK | FK of Equipment Detail Table |
| Quantity | Integer |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Supplies Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Supplies Detail ID | Integer | PK | Unique ID of Supplies  Detail Table |
| Supplies Name | Varchar(50) |  |  |
| Supplies Description | Varchar(200) |  |  |
| Total Quantity | Integer |  |  |
| Vendor ID | Integer | FK | FK of Vendor Table |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |

**Room Supplies Detail:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** | **Definition** |
| Room Supplies Detail ID | Integer | PK | Unique ID of Room Supplies Detail Table |
| Room ID | Varchar(50) | FK | FK of Room Table |
| Supplies Detail ID | Varchar(200) | FK | FK of Supplie Detail Table |
| Quantity | Integer |  |  |
| Created By | Integer | FK | FK of User Table |
| Created DateTime | DateTime |  |  |
| Modified By | Integer | FK | FK of User Table |
| Modified Datetime | DateTime |  |  |