**CLINIC SCHEMA (list all the tables and #columns)**

|  |  |
| --- | --- |
| **Table Name** | **Number of columns** |
| Clinic System | 1 |
| Branch | 4 |
| Staff | 4 |
| Manager | 1 |
| Staff | 1 |
| Department | 3 |
| EmploymentRecord | 2 |
| Patient | 4 |
| PatientHistory | 5 |
| Insurance | 3 |
| Treatment | 6 |
| Appointment | 5 |
| Billing | 4 |
| Payment | 4 |

**Clinic System**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| Clinic\_system |  | VARCHAR2(25) | Clinic Name |

**Branch**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| branchID | NOT NULL | CHAR(3) | Primary Key |
| branchName |  | VARCHAR2(20) | Name of branch |
| branchAddress |  | VARCHAR2(100) | Address of branch |
| managerID |  | CHAR(5) | FK(Manager) |

**Staff**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| staffID | NOT NULL | CHAR(5) | Primary Key |
| fName |  | VARCHAR2(20) | First name of staff |
| lName |  | VARCHAR2(20) | Last name staff |
| branchID |  | CHAR(3) | FK(Branch) |

**Manager**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| managerID | NOT NULL | CHAR(5) | Primary Key |

**Receptionist**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| receptionistID | NOT NULL | CHAR(5) | Primary Key |

**Department**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| deptID | NOT NULL | CHAR(6) | Primary Key |
| deptName |  | VARCHAR2(20) |  |
| branchID |  | CHAR(3) | FK(Branch) |

**EmploymentRecord**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| deptID | NOT NULL | CHAR(6) | Partial Primary Key, FK(Department) |
| physicianID | NOT NULL | CHAR(5) | Partial Primary Key, FK(Physician) |

**Physician**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| physicianID | NOT NULL | CHAR(5) | Primary Key |
| fName | NOT NULL | VARCHAR2(20) | First name of physician |
| lName | NOT NULL | VARCHAR2(20) | Last name of physician |
| specialty |  | VARCHAR2(30) | Specialty of physician (E.g: Surgery, Medicine, Peadiatrics, Dental, X-Ray) |

**Patient**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| patientID | NOT NULL | CHAR(5) | Primary Key |
| phoneNumber |  | NUMBER(10) | Phone number of patient |
| fName | NOT NULL | VARCHAR2(20) | First name of patient |
| lName | NOT NULL | VARCHAR2(20) | Last name of patient |

**PatientHistory**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| medrecordID | NOT NULL | CHAR(5) | Partial Primary Key |
| patientID | NOT NULL | CHAR(5) | Partial Primary Key, FK(Patient) |
| physicianID | NOT NULL | CHAR(5) | FK(Physician) |
| startDate |  | DATE | Start date |
| description |  | VARCHAR2(500) | Description |

**Treatment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| treatmentID | NOT NULL | CHAR(5) | Primary Key |
| treatmentDate |  | DATE | Date that patient is provided treatment |
| treatmentDesc |  | VARCHAR2(500) | Treatment description |
| physicianID |  | CHAR(5) | FK(Physician) |
| patientID |  | CHAR(5) | FK(Patient) |
| medrecordID |  | CHAR(5) | FK(PatientHistory) |

**Insurance**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| insuranceID | NOT NULL | CHAR(3) | Primary Key |
| patientID |  | CHAR(5) | FK(Patient) |
| insuranceCompany |  | CHAR(30) | Name of Insurance company |

**Appointment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| apptID | NOT NULL | CHAR(4) | Primary Key |
| apptTime | NOT NULL | TIMESTAMP | Appointment time |
| receptionistID |  | CHAR(5) | FK(Receptionist) |
| patientID | NOT NULL | CHAR(5) | FK(Patient) |

**Billing**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| billID | NOT NULL | CHAR(3) | PRIMARY KEY |
| billingDate |  | DATE | Date that patient receives billing |
| billingAmt |  | NUMBER(8,2) | Billing amount |
| patientID |  | CHAR(5) | FK(Patient) |

**Payment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **NULL?** | **Type** | **Comments** |
| paymentID | NOT NULL | CHAR(6) | Primary Key |
| paymentDate |  | DATE | Date that patient makes payment |
| paymentAmt |  | NUMBER(8,2) | Payment amount |
| patientID | NOT NULL | CHAR(5) | FK(Patient) |