**Hospital Schema Design**

**Tables**

**Patients**: Patients details.

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Datatype | Constraint | Comment |
| Patient\_ID | Integer | Primary key |  |
| First\_Name | Varchar | Not null |  |
| Last\_Name | Varchar | Not null |  |
| DOB | Date | Not null |  |
| Phone\_Num | Number | Not null |  |
| Gender | Boolean | Not null | F = Female/M = Male |
| Address | Varchar | Not null |  |
| Zip\_Code | Varchar | Not null |  |

**Visits**: Visit request details regarding the Patients.

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Datatype | Constraint | Comment |
| Visit\_ID | Integer | Primary key |  |
| Patient\_ID | Integer | Primary key/Foreign key | Composite PK |
| Provider\_ID | Integer | Primary key/Foreign key | Composite PK |
| Notes | Varchar | Not null |  |
| Purpose | Varchar | Not null |  |
| Hospital\_CCN\_ID | Integer | Primary key/Foreign key | Composite PK |
| Visit\_Date | Date | Not null |  |

**Hospitals**: Hospitals host visits from patients.

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Datatype | Constraint | Comment |
| Hospital\_CCN\_ID | Integer | Primary key |  |
| Phone\_Num | Number | Not null |  |
| Address | Varchar | Not null |  |
| Zip\_Code | Integer | Not null |  |
| CMS\_Region | Varchar | Not null |  |

**Provider**: Patients are administered care by Provider who provides prescriptions.

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Datatype | Constraint | Comment |
| Provider\_ID | Integer | Primary key |  |
| Hospital\_CCN\_ID | Integer | Foreign key |  |
| First\_Name | Varchar | Not null |  |
| Last\_Name | Varchar | Not null |  |
| Phone\_Num | Number | Not null |  |
| Specialty | Varchar | Not null |  |

**Prescriptions**: Are generated for a visit, prescribed by providers, and assigned a medication.

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Datatype | Constraint | Comment |
| Visit\_ID | Integer | Primary key |  |
| Medication\_ID | Integer | Primary key/Foreign key | Composite PK |
| Provider\_ID | Integer | Primary key/Foreign key | Composite PK |
| Qty | Number | Not null |  |
| Prescription\_Nur | Integer | Not null |  |
| Pharmary\_Num | Number | Not null |  |

**Medicatios**: Medication given is determined by the prescription that is submitted.

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Datatype | Constraint | Comment |
| Medication\_ID | Integer | Primary Key |  |
| Name | Varchar |  |  |
| Dose | Varchar |  |  |