**A Database Model for a Medical Management System**

Database model documentation

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# 1. Model details

**Model name:** 
A Database Model for a Medical Management System

**Version:** 
2.4

**Database engine:** 
MySQL

# 2. Tables

## 2.1. Table Patient

2.1.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| PatientID | int | PK |  |
| FirstName | varchar(32) |  |  |
| LastName | varchar(32) |  |  |
| Gender | varchar(20) |  |  |
| Age | int |  |  |
| Address | varchar(100) |  |  |
| Email | varchar(100) |  |  |
| PhoneNumber | varchar(20) |  |  |

## 2.2. Table Doctor

2.2.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| DoctorID | int | PK |  |
| FirstName | varchar(32) |  |  |
| LastName | varchar(32) |  |  |
| Gender | varchar(20) |  |  |
| DoctorType | int |  |  |
| Active | bool |  |  |

## 2.3. Table DoctorType

2.3.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| DoctorType | int | PK |  |
| Description | varchar(100) |  |  |

## 2.4. Table MedicineStock

2.4.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| MedicineID | int | PK |  |
| MedicineName | varchar(100) |  |  |
| BatchNumber | int |  |  |
| MedicineManufacturer | varchar(100) |  |  |
| StockQty | int |  |  |
| Price | int |  |  |
| ExpiryDate | timestamp |  |  |

## 2.5. Table DoctorPrescription

2.5.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| PrescriptionID | int | PK |  |
| PatientID | int |  |  |
| DoctorID | int |  |  |
| PrescriptionDate | timestamp |  |  |

## 2.6. Table PrescriptionDetails

2.6.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| ID | int | PK |  |
| PrescriptionID | int |  |  |
| MedicineID | int |  |  |
| Quantity | int |  |  |

## 2.7. Table OrderSummary

2.7.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| OrderID | int | PK |  |
| PrescriptionID | int |  |  |
| OrderDate | timestamp |  |  |
| MedicalStaffID | int |  |  |

## 2.8. Table MedicalStaffEmployee

2.8.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| MedicalStaffID | int | PK |  |
| FirstName | varchar(32) |  |  |
| LastName | varchar(32) |  |  |
| Location | varchar(100) |  |  |
| HiringDate | timestamp |  |  |
| Role | varchar(32) |  |  |

## 2.9. Table BillSummary

2.9.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| BillID | int | PK |  |
| OrderID | int |  |  |
| TotalAmount | int |  |  |
| BillDate | timestamp |  |  |
| PatientID | int |  |  |
| PaymentType | varchar(32) |  |  |
| TotalPaid | bool |  |  |

# 3. References

## 3.1. Reference Doctor\_DoctorType

|  |  |  |
| --- | --- | --- |
| **DoctorType** | **0..\*** | **Doctor** |
| DoctorType | <-> | DoctorType |

## 3.2. Reference PrescriptionDetails\_DoctorPrescription

|  |  |  |
| --- | --- | --- |
| **DoctorPrescription** | **0..\*** | **PrescriptionDetails** |
| PrescriptionID | <-> | PrescriptionID |

## 3.3. Reference PrescriptionDetails\_MedicineStock

|  |  |  |
| --- | --- | --- |
| **MedicineStock** | **0..\*** | **PrescriptionDetails** |
| MedicineID | <-> | MedicineID |

## 3.4. Reference OrderSummary\_MedicalStaffEmployee

|  |  |  |
| --- | --- | --- |
| **MedicalStaffEmployee** | **0..\*** | **OrderSummary** |
| MedicalStaffID | <-> | MedicalStaffID |

## 3.5. Reference DoctorPrescription\_Patient

|  |  |  |
| --- | --- | --- |
| **Patient** | **0..\*** | **DoctorPrescription** |
| PatientID | <-> | PatientID |

## 3.6. Reference DoctorPrescription\_Doctor

|  |  |  |
| --- | --- | --- |
| **Doctor** | **0..\*** | **DoctorPrescription** |
| DoctorID | <-> | DoctorID |

## 3.7. Reference OrderSummary\_DoctorPrescription

|  |  |  |
| --- | --- | --- |
| **DoctorPrescription** | **0..\*** | **OrderSummary** |
| PrescriptionID | <-> | PrescriptionID |

## 3.8. Reference BillSummary\_OrderSummary

|  |  |  |
| --- | --- | --- |
| **OrderSummary** | **0..\*** | **BillSummary** |
| OrderID | <-> | OrderID |

## 3.9. Reference BillSummary\_Patient

|  |  |  |
| --- | --- | --- |
| **Patient** | **0..\*** | **BillSummary** |
| PatientID | <-> | PatientID |