

## 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

**Description:**

## 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