|  |  |  |  |
| --- | --- | --- | --- |
| Department Table | DepartmentId | Department Name | IsActive |
|  | int-pk | varchar(20) | Bit |
|  |  |  |  |

Tabel 2 Role Table-------------------------------------------------------------------------------------------------------------

|  |  |  |  |
| --- | --- | --- | --- |
| Role | RoleId | RoleName | IsActive |
|  | int pk | varchar(20) | Bit |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Specialization table--------------------------------------------------------------------------------------------------

|  |  |  |  |
| --- | --- | --- | --- |
| Specialization | SpecializationId | Specialiation Name | DepartmentId |
|  | int - pk | varchar(20) | int-fk |
|  |  |  |  |

Logintable---------------------------------------------------------------------------------------------------------------

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Login | userId | UserName | Password | RoleId | staffId |
|  | int-pk | varchar(20) | varchar(20) | Int-fk | Int-fk |
|  |  |  |  |  |  |

Patient table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Patient | PatientId | Patient Name | DOB | Phone Number | Email | Address | Insert - | BloodGroup | MEDICAL RECORD ID |
|  | int -pk | varchar(20) | DateTime | varchar(20) | varchar(20) | Varchar (20) |  | varchar(5) | INT |
|  |  |  |  |  |  |  |  |  |  |

Staff Details

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Staff Details | StaffId | Staff Name | Gender | PhoneNumber | IsActive | RoleId | DepartmentId | SpecializationId |
|  | int-pk | varchar(20) | varchar(5) | varchar(10) | Bit | int-fk | int-fk | int-fk |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Doctor - --------------------------------------------------------

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Doctor | doctorId | Doctor Name | SPECIALIZATIONID |  | TIME SLOTE 1 | DAYS PER WEEK | Time slot 2 | SPECIAL OR MONTHLY DATE | departmentId |
|  | int-pk | varchar(20) | int-fk |  | varchar(20) | INT | varchar(20) | DATETIME | int-fk |
|  |  |  |  |  |  |  |  |  |  |

Appointment

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Apppointment | AppointmentId | PatientId | StaffId | AppointmentDate | AppointmentTime | DoctorId | Token No |
|  | int-pk | int-fk | int-fk | DateTime | DateTime |  | int |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Reception bill

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RecBill | BillId | PatieintId | AppointmentId | StaffId | BillDate | UserId |  |
|  | int-pk | int-fk | int-fk | int-fk | DateTime | Int-fk |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Doctor Log | Doctor PrescriptionId | AppointmentId | Patientid | Diagnosis&noteId | doctorId |  | status | MedicinePrescriptionId | TestPrescriptionId |
|  | int-pk | int-fk | int-fk | int-fk | int-fk |  | varchar(20) | int-pk | int-fk |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Doctor log

Doctor diagnosis

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Diagnosis&note | Diagnosis&noteId | Diagnosis | Desease details | review date | Treatment plan | SYMPTOMS | review time | Medical RecordId |
|  | int-pk | varchar(20) | varchar(20) | dateTime |  | VARCHAR 20 | DateTime | Int-fk |
|  |  |  |  |  |  |  |  |  |

Doctor medicine prescription

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Medicine Prescription | Medicine PrescriptionId | patientId | AppointmentId | DoctorId | PharmacyLogId | DoctorPrescriptionId |
|  | int-pk | int-fk | int-fk | int-fk | int-fk | int-fk |
|  |  |  |  |  |  |  |

Test prescription

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Prescription | Test PrescriptionId | patientId | AppointmentId | DoctorId | LabTechLogId | DoctorPrescriptionId |
|  | int-pk | int-fk | int-fk | int-fk | int-fk | int-fk |
|  |  |  |  |  |  |  |

Pharmacy module

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test Prescription | Test PrescriptionId | patientId | AppointmentId | DoctorId | LabTechLogId | DoctorPrescriptionId | Test Prescription | Test PrescriptionId | patientId | AppointmentId | DoctorId |
|  | int-pk | int-fk | int-fk | int-fk | int-fk | int-fk |  | int-pk | int-fk | int-fk | int-fk |
|  |  |  |  |  |  |  |  |  |  |  |  |

Pharmacy log

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pharmacy Log | PharmacyLogId | med1Id | med2Id | med3Id | med4Id | med5Id | PharmacyBillId | Pharmacy Token | Pharmacy Dispatch status | AppointmentId | staffId | Pharmacy Log |
|  | int-pk | int-fk | int-fk | int-fk | int-fk | int-fk | int-fk | varchar(10) | varchar(10) | int-fk | int-fk |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Medicine 1 slot

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Medicine1 | med1Id | MedicineId | dosage | duration | Awailability |
|  | int-pk | int-fk | varchar(20) | varchar(20) | varchar(10) |
|  |  |  |  |  |  |

Medicine 2 slot

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Medicine2 | med2Id | MedicineId | dosage | duration | Awailability |
|  | int-pk | int-fk | varchar(20) | varchar(20) | varchar(10) |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Medicine 3 slot

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Medicine3 | med3Id | MedicineId | dosage | duration | Awailability |
|  | int-pk | int-fk | varchar(20) | varchar(20) | varchar(10) |
|  |  |  |  |  |  |

Medicine slot 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Medicine4 | med4Id | MedicineId | dosage | duration | Awailability |
|  | int-pk | int-fk | varchar(20) | varchar(20) | varchar(10) |
|  |  |  |  |  |  |

Medicine slot 5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Medicine5 | med5Id | MedicineId | dosage | duration | Awailability |
|  | int-pk | int-fk | varchar(20) | varchar(20) | varchar(10) |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Medicine list--------------------------------------

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Medicine | MedicineId | MedicineType | MedicineName | MedicineCondition | Company Dosage | purchaseId | Stock Analyser | current stock level | Availability |
|  | int-pk | varchar(20) | varchar(20) | varchar(20) | varchar(20) | varchar(20) | varcha(20) | double |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Medicine Stock

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Medicine Stock | purchaseId | company Name | stock analyser | initial stock | current stock | purchase date |
|  | int-pk | varchar(20) | varchar(20) | double | double | DateTime |
|  |  |  |  |  |  |  |

Lab Technician Module-----------------------------------------------------------------------------------------------------

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LabTest | LabTestId | TestType | TestName | TestCondition | Company Dosage | Test Analyser | Test Limit | Stock Analyser | current stock level |
|  | int-pk | varchar(20) | varchar(20) | varchar(20) | varchar(20) | varchar(20) | varcchar(20) | varcha(20) | double |
|  |  |  |  |  |  |  |  |  |  |

Lab test log

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LabtechnicianLog | LabTechLogId | Test1Id | Test2Id | Test3Id | TestBillId | Test Token | Test Status | AppointmentId | staffId | TestReportId |
|  | int-pk | int-fk | int-fk | int-fk | int-fk | varchar(20) | varchar(20) | int-fk | int-fk | int-fk |
|  |  |  |  |  |  |  |  |  |  |  |

3 test tables

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test1 | Test1Id | LabTestId | avalability | test result |
|  | int-pk | int-fk | varchar(5) | Varchar(20) |
|  |  |  |  |  |
| Test2 | Test2Id | LabTestId | availability | test result |
|  | int-pk | int-fk | varchar(5) | Varchar(20) |
|  |  |  |  |  |
| Test3 | Test3Id | LabTestId | availability | test result |
|  | int-pk | int-fk | varchar(5) | Varchar(20) |
|  |  |  |  |  |

Test report

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test Report | TestReportId | LabTechLogId | Test1Id | Test2Id | Test3Id | userid | staffId | AppointmentId |
|  | int-pk | int-fk | int-fk | int-fk | int-fk | int-fk | int-fk | int-fk |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Test bill—

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Bill | TestBillId | TestBillDate | TestPrescriptionid | AppointmentId | staffId | userId |
|  | int-pk | DateTime | int-fk | int-fk | int-fk | int-fk |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Tables and their Relationships

Doctor

DoctorID (Primary Key)

FirstName

LastName

Specialty (Foreign Key to Department.DepartmentID)

PhoneNumber

Email

Department

DepartmentID (Primary Key)

DepartmentName

Doctor I'd (foreign key)

Patient

PatientID (Primary Key)

FirstName

LastName

DateOfBirth

PhoneNumber

Email

Address

MedicalRecordId--- ===

RecordID (Primary Key)

PatientID (Foreign Key to Patient.PatientID)

DoctorID (Foreign Key to Doctor.DoctorID)

DateOfVisit

Diagnosis

TreatmentPlan

Medication

MedicationID (Primary Key)

MedicationName

Dosage

Frequency

TestPrescription

TestID (Primary Key)

RecordID (Foreign Key to MedicalRecord.RecordID)

TestName

TestDate

Result

+----------------+ +-------------------+

| Doctor | | Department |

|----------------| |-------------------|

| DoctorID (PK) |<--------->| DepartmentID (PK) |

| FirstName | 1 N | DepartmentName |

| LastName | +-------------------+

| Specialty (FK) |

| PhoneNumber |

| Email |

+----------------+

^ N

|

| 1

+-------------------+ +----------------------+

| MedicalRecord | | TestPrescription |

|-------------------| |----------------------|

| RecordID (PK) | | TestID (PK) |

| PatientID (FK) |<------>| RecordID (FK) |

| DoctorID (FK) | 1 N| TestName |

| DateOfVisit | | TestDate |

| Diagnosis | | Result |

| TreatmentPlan | +----------------------+

+-------------------+

^ N

|

| 1

+-------------------+ +-------------------+

| Patient | | Medication |

|-------------------| |-------------------|

| PatientID (PK) | | MedicationID (PK) |

| FirstName | | MedicationName |

| LastName | | Dosage |

| DateOfBirth | | Frequency |

| PhoneNumber | +-------------------+

| Email |

| Address |

+-------------------+

^ N

|

| N

+-------------------+

| RecordMedication |

|-------------------|

| RecordID (FK) |

| MedicationID (FK) |

| StartDate |

| EndDate |

|  |
| --- |
|  |

**DB – MAPPING**

**Table ROLE == R**

**TABEL DEPARTMENT == D**

**TABLE SPECIALIZATION == S+>D**

**STAFFDETAILS == SD + > D,S,R**

**DOCTOR == DC +>S,D**

**PATIENT == P**

**LOGIN == L +>SD,R**

**APPOINTMENT == A +> P,DC,SD**

**RECBILL == RB +>A,P,SD,L**

**DOCTORPRESCRITION == DPR +>P,A,DC,MPR,TPR**

**MEDICINEPRESCRIPTION == MPR +>DPR,P,A,DC**

**TESTPRISCRITION == TPR +>DPR,P,A,DC**

**PhasrmacyLog == +>MPR,MED1,2,3,4,5,SD,A,PHBILL**

**MEDICINE1 ==M1**

**MEDICINE2==M2**

**MEDINCE3==M3**

**MEDICINE4==M4**

**MEDIINCE5==M5**

**MEDICINE BILL ==PHBILL**

**MEDICINE == M+>PID**

**MED STOCK == PID**

**LabTechLog== +>TPR,TEST1,2,3 SD,A,TBILL,REPORT**

**TEST1 == T1**

**TEST2==T2**

**TEST3==T3**

**LABTEST LT**

**TESTBILL == TBILL**