Entities

Provider : REGULAR ENTITY

Provider_ID : [PK] ATTRIBUTE Type:NUMERIC Length=10 Width=
A unique identifier assigned to each healthcare provider

First_Name : ATTRIBUTE Type:CHAR Length=30
The providers first name

Last_Name : ATTRIBUTE Type:CHAR Length=30
The providers last name

Specialty : ATTRIBUTE Type:CHAR Length=30
The medical speacialty of the provider (eg., internal medicine, pediatrics).

License_number : ATTRIBUTE Type:CHAR Length=30
The professional license number that authorizes the provider to practice.

Patient : REGULAR ENTITY

Patient_ID : [PK] ATTRIBUTE Type:NUMERIC Length=10 Width=
A unique identifier assigned to each patient

First_Name : ATTRIBUTE Type:CHAR Length=30
Patient first name

Last_Name : ATTRIBUTE Type:CHAR Length=30
Patients last name

dd_mm_yyyy : ATTRIBUTE Type:CHAR Length=30
Patients date of brith 2 digit day, 2 digit month, 4 digit year

(1)_XXX_XXX_XXXX : ATTRIBUTE Type:CHAR Length=30
Phone number of patient starting with area code (1) followed by remaining phone numbers

Appointment : REGULAR ENTITY

Appt_ID : [PK] ATTRIBUTE Type:NUMERIC Length=10 Width=
A unique identifier for each scheduled appointment.

Appt_Date : ATTRIBUTE Type:CHAR Length=30
The calender date the appointment occurs.

Appt_Time : ATTRIBUTE Type:CHAR Length=30
The time the appointment is scheduled

Appt_Status : ATTRIBUTE Type:CHAR Length=30
The current status of the appointment (eg., scheduled, completed, cancelled).

Reason_for_visit : ATTRIBUTE Type:CHAR Length=30
The primary reason for the patient scheduled the appointment.

Department : REGULAR ENTITY

Department_ID : [PK] ATTRIBUTE Type:NUMERIC Length=10 Width=
A unique identifier for each department

Department_Name : ATTRIBUTE Type:CHAR Length=30
the offical name of the department

Location : ATTRIBUTE Type:CHAR Length=30
The location of the department within the facility

Fax_number : ATTRIBUTE Type:CHAR Length=30
Main contact fax number to the department within the faiclity

Operating_hours : ATTRIBUTE Type:CHAR Length=30
Scheduled hours of operation for the department.

Billing : REGULAR ENTITY

Billing_ID : [PK] ATTRIBUTE Type:NUMERIC Length=10 Width=
A unique identifier for each billing record

Billing_Date : ATTRIBUTE Type:CHAR Length=30
Date the billing record was created

Total_amount : ATTRIBUTE Type:CHAR Length=30
the toal charge of services rendered

Payment_status : ATTRIBUTE Type:CHAR Length=30
indicates whether the bill is paid, unpaid, or pending.

Payment_method : ATTRIBUTE Type:CHAR Length=30
Method of payemnt (eg., Credit or debit card).

Relationships
Schedules : REGULAR RELATIONSHIP Patient ONE OPTIONAL to Appointment MANY MANDATORY

Conducts : REGULAR RELATIONSHIP Provider ONE OPTIONAL to Appointment MANY MANDATORY

Employs : REGULAR RELATIONSHIP Department ONE OPTIONAL to Provider MANY MANDATORY

Generates : REGULAR RELATIONSHIP Appointment ONE MANDATORY to Billing ONE MANDATORY