**Table Name: Users (Entity Set)**

**Purpose:**

Allow any type of user to login and holds some basic information common to all user types.

**Attributes:**

* userid
* name
* password

**Table Name: User-Role (Relationship Set)**

**Purpose:**

Once logged in, redirect the user to his given role.

**Attributes:**

* ID
* role type
* role ID (not necessary for financial officer)
* userid

**Table Name: Staff (Entity Set)**

**Purpose:**

Holds information about a specific staff member.

**Attributes:**

* ID

**Table Name: Doctor-Staff (Relationship Set)**

**Purpose:**

Relates a staff member to each doctor that he works for and each doctor to each staff member that works for him. Also determines if the staff member has permission to view that doctor's records.

**Attributes:**

* ID
* Staff ID
* Doctor ID
* Permission granted by doctor to see visitation records of their patients

**Table Name: Doctor (Entity Set)**

**Purpose:**

Holds information about the Doctor.

**Attributes:**

* ID

**Table Name: Doctor-Patient (Relationship Set)**

**Purpose:**

Relate a patient to his default doctor and relate a doctor to his current list of patients.

**Attributes:**

* ID
* Patient IDs (current patient)
* Doctor ID (default doctor)

**Viewing Rights:**

* Financial officer: can see doctor's information, but can't look up patient's name
* Doctors: Should be able to list current patients which is searchable by several criteria(name, patient id, last visit data, ...).

**Table Name: Patient (Entity Set)**

**Purpose:**

Holds specific information about the patient.

**Attributes:**

* ID
* address
* phone number
* OHIP #
* SIN
* number of visits (can get from visitation records)
* indication of current health (i.e. healthy, diagnosis in progress, prescription currently being taken, receiving treatment, scheduled for surgery, transferred to another hospital)

**Special Operations:**

**Viewing Rights:**

* Patient: Can only view their own records and should be confidential, require password. Can update only address, phone number.
* Staff: Create new patients. Update patient information. Assign patient to a doctor.

**Table Name: Doctor-Patient-Appointment (Relationship Set)**

**Purpose:**

Relate a given patient to a specific doctor with all of the appointments they've had together.

**Attributes:**

* ID
* Patient ID
* Doctor ID
* Appointment IDs

**Table Name: Appointments (Entity Set)**

**Purpose:**

Holds information about a scheduled appointment.

**Attributes:**

* id
* scheduled date and time
* estimated length of visit
* status (e.i. done, cancelled, etc...)

**Viewing Rights:**

* Staff: Enter appointments and check for conflicts. Delete appointments of reschedule them.

**Table Name: Patient-Record (Relationship Set)**

**Purpose:**

Relates a given patient to a given doctor and all of the visitation records that they share together.

**Attributes:**

* ID
* Patient ID
* Record IDs
* Doctor ID

**Table Name: Visitation Record (Entity Set)**

**Purpose:**

Holds information about a specific visit.

**Attributes:**

* ID
* length of visit
* procedure
* scheduling of treatment
* freeform comments
* surgery performed
* Doctor ids whom are allowed to view the record

**Special Operations:**

* Update: Create a new record instead with the updated information

**Viewing Rights:**

* Doctor: Can only see records of their own patients. Can grant/revoke permission to another doctor to look at one of their patient's visitation records. Past recrods of a patient available when looking at current record. find past records by date, patient name, diagnosis, keyword in freeform comments, prescriptions given, surgery performed, etc. Can enter a patient visitation record.
* Staff: Can access the records for the doctor(s) they work for if they have permission.
* Patients: Can only look at their own records. Can't see freeform comments.
* Financial department: Ability to monitor any doctor to determine how many patients he/she saw in a given time period(SQL query based on date of visit), can see all of the information in this table. How many times a given patient was seen(query based on number of records)

**Table Name: Record-Diagnosis-Prescription (Relationship Set)**

**Purpose:**

Relates the given visitation record with all diagnoses done and prescriptions given during that visit.

**Attributes:**

* ID
* diagnosis IDs
* prescription IDs
* Record ID
* Appointment ID

**Table Name: Prescriptions (Entity Set)**

**Purpose:**

Prepopulated list of all possible prescriptions and their details.

**Attributes:**

* id
* name
* description

**Table Name: Diagnosis (Entity Set)**

**Purpose:**

Prepopulated list of all possible diagnoses and their related information.

**Attributes:**

* id
* name
* description
* outcomes

**Table Name: Diagnosis-Prescription (Relationship Set)**

**Purpose:**

Relates any given diagnosis with the recommended prescriptions.

**Attributes:**

* ID
* diagnosis ID
* prescription IDs