Graeme
Beatie
A2 ERD

Entity legend
Data
Linking/Associative
Look up

PATIENT_ONLINE_ACCOUNT

PK	**PatUsername**	varchar
	PatPassword	varchar
FK	**PatID**	int

APPOINTMENT

PK	**ApptID**	int
	ApptDateTime	datetime
FK	**PatID**	int
FK	**AptAssignmentID**	int
FK	**StatusID**	bit

INSURANCE

PK	**InsuranceID**	int
	InsurancePolicyNum	int
	InsuranceCompany	varchar
	InsuranceEffective	date
	InsuranceExpires	date
FK	**PatID**	int

PATIENT

PK	**PatID**	int
	PatSSN	int
	PatDOB	date
FK	**PersonID**	int

APPOINTMENT_STATUS

PK	**ApptStatusID**	int
	ApptStatusDescription	bit

EMPLOYEE_APPT_ASSIGNMENTS

PK	**AptAssignmentID**	int
FK	**ApptID**	int
FK	**EmpID**	int
FK	**DentistID**	int

PERSON

PK	**PersonID**	int
	PersonFirst	nvarchar
	PersonLast	nvarchar
FK	**AddressID**	int

EMPLOYEE

PK	**EmpID**	int
	EmpSSN	int
	EmpDOB	date
	EmpHireDate	date
	EmpTerminateDate	date
FK	**PersonID**	int

DENTIST

PK	**DentistID**	int
	DentistLicenseNum	int
FK	**EmpID**	int

CONTACT

PK	**ContactID**	int
	ContactValue	varchar
FK	**PersonID**	int
FK	**ContactTypeID**	int

SUPPLY_STOCK

PK	**SupplyStockID**	int
	SupplyQuantity	int
	SupplyLowAlertAmt	int
FK	**EmpID**	int
FK	**SupplyID**	int
FK	**OfficeID**	int

SUPPLY_ITEM

PK	**SupplyID**	int
	SupplyDescription	varchar

CONTACT_TYPE

PK	**ContactTypeID**	int
	ContactDescription	varchar

OFFICE

PK	**OfficeID**	int
FK	**AddressID**	int
	OfficeEstablishedDate	date
	OfficeEmail	varchar
	OfficePhone	int

ADDRESS

PK	**AddressID**	int
	AddressLine1	varchar
	AddressLine2	varchar
	State	varchar
	Zip	int
	Country	varchar

BILL_DETAILS

PK	**BillDetailID**	int
	Qty	int
FK	**SupplyID**	int
FK	**ServiceBIllingCode**	varchar

SERVICE_ITEM

PK	**ServiceBillingCode**	varchar
	ServiceDescription	varchar
	ServicePrice	money

BILL

PK	**BillingID**	int
	BillDate	datetime
FK	**PatID**	int

Relationship labels:
- An appointment must have atleast two employees assigned. One being a dentist
- Accounts can be for one or many patients (like for families)
- An Appointment can have only one status
- Appointments are for only one patient
- Patients can have zero to one insurance plan
- A patient can only be one person
- An Employee can only be one person
- An employee can have zero or many assignmets
- A Person can have zero to many contact methods to them
- The employee can only be zero or one dentists
- A person can have zero to one address
- A contact can only have one contact type
- The stock can have zero or many supply items
- A supply stock can be for one or many offices
- A office can have only one address
- The bill can have have zero or many items used
- The bill can have one or many bill details
- The bill details can include zero or many services items provided