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**Scripts Position:**/scripts.txt

**Video Position**:/Assignment4.mp4

**EntityClass Position:**/Entity/\*

**Patient Entity**:

package edu.stevens.cs548.clinic.domainmodel;

import java.io.Serializable;

import java.lang.String;

import java.util.ArrayList;

import java.util.Date;

import java.util.List;

import javax.persistence.\*;

import static javax.persistence.CascadeType.REMOVE;

/\*\*

\* Entity implementation class for Entity: Patient

\*

\*/

@Entity

@Table(name = "PATIENT")

public class Patient implements Serializable {

private static final long serialVersionUID = 1L;

@Id

@GeneratedValue

private long id;

private long PatientId;

@Column(name="PATIENT\_NAME")

private String name;

@Temporal(TemporalType.DATE)

private Date dob;

@OneToMany(cascade = REMOVE, mappedBy = "patient")

@OrderBy

private List<Treatment> treatments;

public Patient() {

super();

treatments = new ArrayList<Treatment>();

}

public long getId() {

return id;

}

public void setId(long id) {

this.id = id;

}

public long getPatientId() {

return this.PatientId;

}

public void setPatientId(long PatientId) {

this.PatientId = PatientId;

}

public String getName() {

return this.name;

}

public void setName(String name) {

this.name = name;

}

public Date getDob() {

return this.dob;

}

public void setDob(Date dob) {

this.dob = dob;

}

public List<Treatment> getTreatments() {

return treatments;

}

public void setTreatments(List<Treatment> treatments) {

this.treatments = treatments;

}

}

**Provider Entity:**

package edu.stevens.cs548.clinic.domainmodel;

import static javax.persistence.CascadeType.REMOVE;

import java.io.Serializable;

import java.util.ArrayList;

import java.util.List;

import javax.persistence.\*;

import static javax.persistence.CascadeType.ALL;

/\*\*

\* Entity implementation class for Entity: Provider

\*

\*/

@Entity

@Table(name="PROVIDER")

public class Provider implements Serializable {

/\*\*

\*

\*/

private static final long serialVersionUID = 7025511983314295144L;

private enum specialization{surgery,radiology,oncology};

@Id

@Column(name="NPI")

private long NPI;

@Column(name="PROVIDER\_NAME")

private String name;

@Column(name="SPECIALIZATION")

private String spec;

@OneToMany(cascade =REMOVE, mappedBy = "provider")

@OrderBy

private List<Treatment> treatments;

private specialization special;

public Provider() {

super();

treatments = new ArrayList<Treatment>();

}

public long getNPI() {

return NPI;

}

public void setNPI(long nPI) {

NPI = nPI;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getSpec() {

return spec;

}

public void setSpec(specialization special) {

this.spec = special.name();

}

}

**Treatment Entity:**

package edu.stevens.cs548.clinic.domainmodel;

import java.io.Serializable;

import javax.persistence.\*;

@Entity

@Inheritance(strategy=InheritanceType.JOINED)

@DiscriminatorColumn(name="TTYPE")

@Table(name="TREATMENT")

public abstract class Treatment implements Serializable {

private static final long serialVersionUID = -6375011083514153849L;

/\*\*

\*

\*/

@Id

@GeneratedValue

private long id;

@Column(name="DIAGNOSIS")

private String diagnosis;

@ManyToOne

@JoinColumn(name = "patient\_fk", referencedColumnName = "id")

private Patient patient;

@ManyToOne

@JoinColumn(name = "provider\_fk", referencedColumnName = "NPI")

private Provider provider;

@Column(name="TTYPE",length=2)

private String treatmentType;

public Treatment()

{

super();

}

public String getTreatmentType() {

return treatmentType;

}

public void setTreatmentType(String treatmentType) {

this.treatmentType = treatmentType;

}

public long getId() {

return id;

}

public void setId(long id) {

this.id = id;

}

public String getDiagnosis() {

return diagnosis;

}

public void setDiagnosis(String diagnosis) {

this.diagnosis = diagnosis;

}

public Patient getPatient() {

return patient;

}

void setPatient(Patient patient) {

this.patient = patient;

}

}

**Scripts:**

[EL Config]: metadata: The access type for the persistent class [class edu.stevens.cs548.clinic.domainmodel.Treatment] is set to [FIELD].

[EL Config]: metadata: The target entity (reference) class for the many to one mapping element [field provider] is being defaulted to: class edu.stevens.cs548.clinic.domainmodel.Provider.

[EL Config]: metadata: The target entity (reference) class for the many to one mapping element [field patient] is being defaulted to: class edu.stevens.cs548.clinic.domainmodel.Patient.

[EL Config]: metadata: The access type for the persistent class [class edu.stevens.cs548.clinic.domainmodel.DrugTreatment] is set to [FIELD].

[EL Config]: metadata: The access type for the persistent class [class edu.stevens.cs548.clinic.domainmodel.Patient] is set to [FIELD].

[EL Config]: metadata: The target entity (reference) class for the one to many mapping element [field treatments] is being defaulted to: class edu.stevens.cs548.clinic.domainmodel.Treatment.

[EL Config]: metadata: The access type for the persistent class [class edu.stevens.cs548.clinic.domainmodel.Radiology] is set to [FIELD].

[EL Config]: metadata: The target class (reference) class for the element collection mapping element [field dates] is being defaulted to: class java.util.Date.

[EL Config]: metadata: The access type for the persistent class [class edu.stevens.cs548.clinic.domainmodel.Surgery] is set to [FIELD].

[EL Config]: metadata: The access type for the persistent class [class edu.stevens.cs548.clinic.domainmodel.Provider] is set to [FIELD].

[EL Config]: metadata: The target entity (reference) class for the one to many mapping element [field treatments] is being defaulted to: class edu.stevens.cs548.clinic.domainmodel.Treatment.

[EL Config]: metadata: The alias name for the entity class [class edu.stevens.cs548.clinic.domainmodel.DrugTreatment] is being defaulted to: DrugTreatment.

[EL Config]: metadata: The alias name for the entity class [class edu.stevens.cs548.clinic.domainmodel.Treatment] is being defaulted to: Treatment.

[EL Config]: metadata: The column name for element [id] is being defaulted to: ID.

[EL Config]: metadata: The table name for entity [class edu.stevens.cs548.clinic.domainmodel.DrugTreatment] is being defaulted to: DRUGTREATMENT.

[EL Config]: metadata: The primary key column name for the inheritance class [class edu.stevens.cs548.clinic.domainmodel.DrugTreatment] is being defaulted to: ID.

[EL Config]: metadata: The foreign key column name for the inheritance class [edu.stevens.cs548.clinic.domainmodel.DrugTreatment] is being defaulted to: ID.

[EL Config]: metadata: The column name for element [dosage] is being defaulted to: DOSAGE.

[EL Config]: metadata: The column name for element [drug] is being defaulted to: DRUG.

[EL Config]: metadata: The alias name for the entity class [class edu.stevens.cs548.clinic.domainmodel.Patient] is being defaulted to: Patient.

[EL Config]: metadata: The column name for element [dob] is being defaulted to: DOB.

[EL Config]: metadata: The column name for element [PatientId] is being defaulted to: PATIENTID.

[EL Config]: metadata: The column name for element [id] is being defaulted to: ID.

[EL Config]: metadata: The alias name for the entity class [class edu.stevens.cs548.clinic.domainmodel.Radiology] is being defaulted to: Radiology.

[EL Config]: metadata: The table name for entity [class edu.stevens.cs548.clinic.domainmodel.Radiology] is being defaulted to: RADIOLOGY.

[EL Config]: metadata: The primary key column name for the inheritance class [class edu.stevens.cs548.clinic.domainmodel.Radiology] is being defaulted to: ID.

[EL Config]: metadata: The foreign key column name for the inheritance class [edu.stevens.cs548.clinic.domainmodel.Radiology] is being defaulted to: ID.

[EL Config]: metadata: The alias name for the entity class [class edu.stevens.cs548.clinic.domainmodel.Surgery] is being defaulted to: Surgery.

[EL Config]: metadata: The table name for entity [class edu.stevens.cs548.clinic.domainmodel.Surgery] is being defaulted to: SURGERY.

[EL Config]: metadata: The primary key column name for the inheritance class [class edu.stevens.cs548.clinic.domainmodel.Surgery] is being defaulted to: ID.

[EL Config]: metadata: The foreign key column name for the inheritance class [edu.stevens.cs548.clinic.domainmodel.Surgery] is being defaulted to: ID.

[EL Config]: metadata: The column name for element [date] is being defaulted to: DATE.

[EL Config]: metadata: The alias name for the entity class [class edu.stevens.cs548.clinic.domainmodel.Provider] is being defaulted to: Provider.

[EL Config]: metadata: The column name for element [special] is being defaulted to: SPECIAL.

[EL Config]: metadata: The collection table name for the basic collection/map mapping [field dates] is being defaulted to: Radiology\_DATES.

[EL Config]: metadata: The primary key column name for the mapping element [field dates] is being defaulted to: ID.

[EL Config]: metadata: The foreign key column name for the mapping element [dates] is being defaulted to: Radiology\_ID.

[EL Config]: metadata: The value column name for the basic collection/map mapping element mapping element [dates] is being defaulted to: DATES.

[EL Warning]: transaction: PersistenceUnitInfo ClinicDomainModel has transactionType RESOURCE\_LOCAL and therefore jtaDataSource will be ignored

[EL Info]: EclipseLink, version: Eclipse Persistence Services - 2.5.2.v20140319-9ad6abd

[EL Fine]: connection: Detected database platform: org.eclipse.persistence.platform.database.PostgreSQLPlatform

[EL Config]: connection: Connection(1593245055)--connecting(DatabaseLogin(

platform=>PostgreSQLPlatform

user name=> "serf"

datasource URL=> "jdbc:postgresql://ec2-34-228-254-157.compute-1.amazonaws.com:5432/serfdb"

))

[EL Config]: connection: Connection(1446243714)--Connected: jdbc:postgresql://ec2-34-228-254-157.compute-1.amazonaws.com:5432/serfdb

User: serf

Database: PostgreSQL Version: 9.2.22

Driver: PostgreSQL JDBC Driver Version: 42.1.4.jre7

[EL Config]: connection: Connection(1987154353)--connecting(DatabaseLogin(

platform=>PostgreSQLPlatform

user name=> "serf"

datasource URL=> "jdbc:postgresql://ec2-34-228-254-157.compute-1.amazonaws.com:5432/serfdb"

))

[EL Config]: connection: Connection(886386381)--Connected: jdbc:postgresql://ec2-34-228-254-157.compute-1.amazonaws.com:5432/serfdb

User: serf

Database: PostgreSQL Version: 9.2.22

Driver: PostgreSQL JDBC Driver Version: 42.1.4.jre7

[EL Info]: connection: file:/E:/EclipseWorkspace/ClinicDomainModel/build/classes/\_ClinicDomainModel\_url=jdbc:postgresql://ec2-34-228-254-157.compute-1.amazonaws.com:5432/serfdb\_user=serf login successful

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE TREATMENT DROP CONSTRAINT FK\_TREATMENT\_provider\_fk

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE TREATMENT DROP CONSTRAINT FK\_TREATMENT\_patient\_fk

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE DRUGTREATMENT DROP CONSTRAINT FK\_DRUGTREATMENT\_ID

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE SURGERY DROP CONSTRAINT FK\_SURGERY\_ID

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE RADIOLOGY DROP CONSTRAINT FK\_RADIOLOGY\_ID

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE Radiology\_DATES DROP CONSTRAINT FK\_Radiology\_DATES\_Radiology\_ID

[EL Fine]: sql: Connection(1446243714)--DROP TABLE PATIENT CASCADE

[EL Fine]: sql: Connection(1446243714)--DROP TABLE TREATMENT CASCADE

[EL Fine]: sql: Connection(1446243714)--DROP TABLE DRUGTREATMENT CASCADE

[EL Fine]: sql: Connection(1446243714)--DROP TABLE SURGERY CASCADE

[EL Fine]: sql: Connection(1446243714)--DROP TABLE RADIOLOGY CASCADE

[EL Fine]: sql: Connection(1446243714)--DROP TABLE PROVIDER CASCADE

[EL Fine]: sql: Connection(1446243714)--DROP TABLE Radiology\_DATES CASCADE

[EL Fine]: sql: Connection(1446243714)--CREATE TABLE PATIENT (ID BIGINT NOT NULL, PATIENTID BIGINT, DOB DATE, PATIENT\_NAME VARCHAR(255), PRIMARY KEY (ID))

[EL Fine]: sql: Connection(1446243714)--CREATE TABLE TREATMENT (ID BIGINT NOT NULL, TTYPE VARCHAR(31), DIAGNOSIS VARCHAR(255), patient\_fk BIGINT, provider\_fk BIGINT, PRIMARY KEY (ID))

[EL Fine]: sql: Connection(1446243714)--CREATE TABLE DRUGTREATMENT (ID BIGINT NOT NULL, DOSAGE FLOAT, DRUG VARCHAR(255), PRIMARY KEY (ID))

[EL Fine]: sql: Connection(1446243714)--CREATE TABLE SURGERY (ID BIGINT NOT NULL, DATE DATE, PRIMARY KEY (ID))

[EL Fine]: sql: Connection(1446243714)--CREATE TABLE RADIOLOGY (ID BIGINT NOT NULL, PRIMARY KEY (ID))

[EL Fine]: sql: Connection(1446243714)--CREATE TABLE PROVIDER (NPI BIGINT NOT NULL, PROVIDER\_NAME VARCHAR(255), SPECIALIZATION VARCHAR(255), SPECIAL INTEGER, PRIMARY KEY (NPI))

[EL Fine]: sql: Connection(1446243714)--CREATE TABLE Radiology\_DATES (Radiology\_ID BIGINT, DATES DATE)

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE TREATMENT ADD CONSTRAINT FK\_TREATMENT\_provider\_fk FOREIGN KEY (provider\_fk) REFERENCES PROVIDER (NPI)

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE TREATMENT ADD CONSTRAINT FK\_TREATMENT\_patient\_fk FOREIGN KEY (patient\_fk) REFERENCES PATIENT (ID)

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE DRUGTREATMENT ADD CONSTRAINT FK\_DRUGTREATMENT\_ID FOREIGN KEY (ID) REFERENCES TREATMENT (ID)

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE SURGERY ADD CONSTRAINT FK\_SURGERY\_ID FOREIGN KEY (ID) REFERENCES TREATMENT (ID)

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE RADIOLOGY ADD CONSTRAINT FK\_RADIOLOGY\_ID FOREIGN KEY (ID) REFERENCES TREATMENT (ID)

[EL Fine]: sql: Connection(1446243714)--ALTER TABLE Radiology\_DATES ADD CONSTRAINT FK\_Radiology\_DATES\_Radiology\_ID FOREIGN KEY (Radiology\_ID) REFERENCES TREATMENT (ID)

[EL Fine]: sql: Connection(1446243714)--DELETE FROM SEQUENCE WHERE SEQ\_NAME = SEQ\_GEN

[EL Fine]: sql: Connection(1446243714)--SELECT \* FROM SEQUENCE WHERE SEQ\_NAME = SEQ\_GEN

[EL Fine]: sql: Connection(1446243714)--INSERT INTO SEQUENCE(SEQ\_NAME, SEQ\_COUNT) values (SEQ\_GEN, 0)

[EL Config]: connection: Connection(1446243714)--disconnect

[EL Info]: connection: file:/E:/EclipseWorkspace/ClinicDomainModel/build/classes/\_ClinicDomainModel\_url=jdbc:postgresql://ec2-34-228-254-157.compute-1.amazonaws.com:5432/serfdb\_user=serf logout successful

[EL Config]: connection: Connection(1593245055)--disconnect

[EL Config]: connection: Connection(886386381)--disconnect