**UNIVERSITÉ DU QUÉBEC À MONTRÉAL**

**TP**

**Cours : INF5180-H2018**

**(Conception et exploitation d'une base de données)**

**Travail remis à**

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**Nom :**

**Prénom :**

**Code permanent :**

**Courriel :**

**Nom :**

**Prénom :**

**Code permanent :**

**Courriel :**

**1. Code du schéma SQL – preuve d’exécution**

Copier+Coller le contenu de create.res

Copier+Coller le contenu de tests.res

Ne pas copier+coller insert.res

Ne pas copier+coller drop.res

SQL> @/home/ju/JetBrainsProjects/IdeaProjects/INF5180/tp2\_localhost/script/CreateTable.sql

Session altered.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

Table created.

SQL>

SQL> @/home/ju/JetBrainsProjects/IdeaProjects/INF5180/tp2\_localhost/script/CreateTableTest.sql

TABLE\_NAME OWNER

------------------------------ ------------------------------

CATEGORIES JU

CHIRURGIE JU

CONSULTATION JU

DOCTEUR JU

DOSSIERPATIENT JU

MEDICAMENT JU

ORDONNANCE JU

ORDONNANCECHIRURGIE JU

ORDONNANCEMEDICAMENTS JU

SALLE JU

SPECIALISATIONSALLE JU

TABLE\_NAME OWNER

------------------------------ ------------------------------

SPECIALITE JU

TYPECHIRURGIE JU

13 rows selected.

SQL>

SQL> @/home/ju/JetBrainsProjects/IdeaProjects/INF5180/tp2\_localhost/script/RequestTp2.sql

MATRICULE NOMM PRENOMM NBRCHIRURGIES

---------- -------------------- -------------------- -------------

15 smith john 3

MATRICULE NOMM PRENOMM NBRCONSULTATION

---------- -------------------- -------------------- ---------------

10 Dr House 1

13 smith john 1

12 Dr Green Thumb 1

14 smith john 1

11 Dr Evil 1

15 smith john 3

6 rows selected.

ANNEE NBRCONSULTATIONS

---------- ----------------

2010 1

2011 1

2012 6

MATRICULE NOMM PRENOMM SUM(O.NBRMEDICAMENTS)

---------- -------------------- -------------------- ---------------------

10 Dr House 10

13 smith john 13

12 Dr Green Thumb 0

14 smith john 14

11 Dr Evil 11

15 smith john 48

6 rows selected.

View created.

View created.

ANNEE RATIO

---------- ----------

2011 1

2010 1

2012 1

SQL>

**2. JAVA - JDBC**

Copier+Coller le contenu de(s) classe(s) Java

**package** tp2Jdbc;*//STEP 1. Importer les packages necessaires*

**import** java.sql.\*;

**import** tp2Jdbc.jdbcUtils.\*;

**public class** Tp2Jdbc {

*// driver JDBC nom et URL BD*

**static private final** String ***JDBC\_DRIVER*** = **"oracle.jdbc.OracleDriver"**;

**private static final** String ***REQ1*** = **"1) AFFICHER LE NOMBRE DE CHIRURGIES PAR DOCTEUR"**;

**private static final** String ***REQ2*** = **"2) AFFICHER LE NOMBRE DE CONSULTATIONS PAR DOCTEUR"**;

**private static final** String ***REQ3*** = **"3) AFFICHER LE NOMBRE DE CONSULTATIONS PAR ANNÉE"**;

**private static final** String ***REQ4*** = **"4) AFFICHER LE NOMBRE DE MÉDICAMENTS PRESCRITS PAR DOCTEUR"**;

**private static final** String ***REQ5*** = **"5) RATIO DES CHIRURGIES VERSUS TRAITEMENTS MÉDICAMENTEUX PAR ANNEES"**;

**private static void** requete1 (Statement stmt) **throws** SQLException{

System.***out***.println(***REQ1***);

String sql = **"Select D.matricule, D.nomM, D.prenomM,** *count***(chi.idChir) AS nbr "** +

**"From DOCTEUR D, CONSULTATION cons, ORDONNANCECHIRURGIE OC, CHIRURGIE chi "** +

**"Where D.matricule** **= cons.CodeDocteur** **And cons.numOrd** **= OC.numOrd** **AND OC.IDCHIR=chi.IDCHIR** **"** +

**"Group By D.matricule, D.nomM, D.prenomM"**;

ResultSet rs = stmt.executeQuery(sql);

JdbcUtils.*printIntStringStringInt*(rs,**"---ID------nomM------prenomM----nbrChirurgie\n"**);

rs.close();

}

**private static void** requete2 (Statement stmt) **throws** SQLException{

System.***out***.println(***REQ2***);

String sql = **"SELECT D.matricule, D.nomM, D.prenomM,** *count***(***\****) AS nbr "** +

**"FROM CONSULTATION C, DOCTEUR D "** +

**"Where C.CodeDocteur** **= D.matricule** **"** +

**"GROUP BY D.matricule, D.nomM, D.prenomM"**;

ResultSet rs = stmt.executeQuery(sql);

JdbcUtils.*printIntStringStringInt*(rs,**"---ID------nomM------prenomM----nbrConsultations\n"**);

rs.close();

}

**private static void** requete3 (Statement stmt) **throws** SQLException{

System.***out***.println(***REQ3***);

String sql = **"Select** *extract* **(year from dateC) AS annee,** *count***(***\****) AS nbr "** +

**"From Consultation c "** +

**"group by** *extract* **(year from dateC)"**;

ResultSet rs = stmt.executeQuery(sql);

JdbcUtils.*printStringInt*(rs,**"---annee------nbrConsultations\n"**);

rs.close();

}

**private static void** requete4 (Statement stmt) **throws** SQLException{

System.***out***.println(***REQ4***);

String sql = **"Select D.matricule, D.nomM, D.prenomM,** *sum***(nbrMedicaments) AS nbr "** +

**"From DOCTEUR D, CONSULTATION C, ORDONNANCE O "** +

**"Where D.matricule** **= C.CodeDocteur** **And C.numOrd** **= O.numOrd** **"** +

**"Group By D.matricule, D.nomM, D.prenomM"**;

ResultSet rs = stmt.executeQuery(sql);

JdbcUtils.*printIntStringStringInt*(rs,**"---ID------nomM------prenomM----nbrmedicaments\n"**);

rs.close();

}

**private static void** requete5 (Statement stmt) **throws** SQLException{

System.***out***.println(***REQ5***);

String sql = **"create or replace view TRAITEMENTMEDICAMENTEUX (annee, nbr) AS "** +

**"Select** *extract* **(year from o.DATEC) as annee,** *count***(***\****) as nbr "** +

**"from ORDONNANCE o , CHIRURGIE c "** +

**"where o.type** **= 'Médicaments' AND** *extract* **(year from c.DATECHIRURGIE) =** *extract* **(year from o.DATEC) "** +

**"group by o.DATEC** **"** +

**"ORDER BY annee"**;

stmt.executeQuery(sql);

sql = **"create or replace view CHIRURGIECOMPLETE (annee, nbr) AS "** +

**"Select** *extract* **(year from o.DATEC) as annee,** *count***(***\****) as nbr "** +

**"from ORDONNANCE o , CHIRURGIE c "** +

**"where** *extract* **(year from c.DATECHIRURGIE) =** *extract* **(year from o.DATEC) "** +

**"group by o.DATEC** **"** +

**"ORDER BY annee"**;

stmt.executeQuery(sql);

sql = **" select CHIRURGIECOMPLETE.annee,** *count***(CHIRURGIECOMPLETE.nbr)/***count***(TRAITEMENTMEDICAMENTEUX.nbr) as ratio "** +

**"from CHIRURGIECOMPLETE JOIN TRAITEMENTMEDICAMENTEUX on CHIRURGIECOMPLETE.annee** **= TRAITEMENTMEDICAMENTEUX.annee** **"** +

**"group by CHIRURGIECOMPLETE.annee, CHIRURGIECOMPLETE.nbr, TRAITEMENTMEDICAMENTEUX.annee, TRAITEMENTMEDICAMENTEUX.nbr"**;

ResultSet rs = stmt.executeQuery(sql);

JdbcUtils.*printIntBigdecimal*(rs,**"---annee------ratio\n"**);

rs.close();

}

**public static void** main(String[] args) {

Connection conn ;

Statement stmt ;

**final** String DB\_URL = args[0];

**final** String USER = args[1];

**final** String PASS = args[2];

**try**{

*//STEP 2: enregistrement du driver JDBC*

Class.*forName*(***JDBC\_DRIVER***);

*//STEP 3: Ouvrir une connexion*

System.***out***.println(**"Connecting to database..."**);

conn = DriverManager.*getConnection*(DB\_URL,USER,PASS);

JdbcUtils.*populateTables*(conn);

stmt = conn.createStatement();

*requete1*(stmt);

*requete2*(stmt);

*requete3*(stmt);

*//pas à évaluer*

*// requete4(stmt);*

*// requete5(stmt);*

*//clean up*

stmt.close();

conn.close();

}**catch**(SQLException se){

*//Gerer les erreur pour JDBC*

se.printStackTrace();

}**catch**(Exception e){

*//Gerer les erreur pour Class.forName*

e.printStackTrace();

}**finally** {

}

System.***out***.println(**"\nGoodbye!"**);

}*//fin main*

}

**package** tp2Jdbc.jdbcUtils;

**import** java.math.BigDecimal;

**import** java.sql.\*;

**import** java.util.Calendar;

**import** tp2Jdbc.jdbc.\*;

**public class** JdbcUtils {

**private static** java.sql.Date setDate(Calendar cal, **int** year, **int** month, **int** day){

cal.set(Calendar.***YEAR***, year);

cal.set(Calendar.***MONTH***,month);

cal.set(Calendar.***DAY\_OF\_MONTH***, day);

**return new** java.sql.Date(cal.getTime().getTime());

}

**public static void** populateTables(Connection conn) {

Calendar cal =Calendar.*getInstance*();

Date date1 = *setDate*(cal,2010,10,10);

Date date2 = *setDate*(cal,2011,11,11);

Date date3 = *setDate*(cal,2012,12,12);

Date date4 = *setDate*(cal,2013,13,13);

**try** {

*//Insertion*

SpecialiteJDBC.*insert*(conn,**new** BigDecimal(10),**"esthetique"**, **"facial"** );

SpecialiteJDBC.*insert*(conn,**new** BigDecimal(11),**"urgentiste"**, **"accident"** );

SpecialiteJDBC.*insert*(conn,**new** BigDecimal(12),**"ophtamologiste"**, **"chirurgie"** );

SpecialiteJDBC.*insert*(conn,**new** BigDecimal(13),**"chirurgiem"**, **"facial"** );

SpecialiteJDBC.*insert*(conn,**new** BigDecimal(14),**"pediatre"**, **"accident"** );

SpecialiteJDBC.*insert*(conn,**new** BigDecimal(15),**"psychologue"**, **"chirurgie"** );

SalleJDBC.*insert*(conn,**new** BigDecimal(10),**"wilfred"**);

SalleJDBC.*insert*(conn,**new** BigDecimal(11),**"calixa"**);

SalleJDBC.*insert*(conn,**new** BigDecimal(12),**"abraham"**);

CategoriesJDBC.*insert*(conn, **new** BigDecimal(10), **"comprimé"**, **"comprimé"**);

CategoriesJDBC.*insert*(conn, **new** BigDecimal(11), **"comprimé"**, **"gelule"**);

CategoriesJDBC.*insert*(conn, **new** BigDecimal(12), **"comprimé"**, **"sirop"**);

TypeChirurgieJDBC.*insert*(conn, **new** BigDecimal(10), **"chirurgie dentaire"**, **"bouche"**);

TypeChirurgieJDBC.*insert*(conn, **new** BigDecimal(11), **"chirurgie plastique"**, **"yeux"**);

TypeChirurgieJDBC.*insert*(conn, **new** BigDecimal(12), **"chirurgie dentaire"**, **"bouche"**);

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(10), **"rien manger"**, **"Médicaments"**, date1,**new** BigDecimal(10));

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(11), **"rien boire"**, **"Médicaments"**, date2,**new** BigDecimal(11));

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(12), **"rien faire"**, **"Médicaments"**, date3,**new** BigDecimal(12));

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(13), **"prier"**, **"Médicaments"**, date1,**new** BigDecimal(13));

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(14), **"rien manger"**, **"Médicaments"**, date1,**new** BigDecimal(10));

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(15), **"rien boire"**, **"Chirurgie"**, date2,**new** BigDecimal(11));

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(16), **"rien faire"**, **"Chirurgie"**, date3,**new** BigDecimal(12));

OrdonnanceJDBC.*insert*(conn, **new** BigDecimal(17), **"prier"**, **"Chirurgie"**, date1,**new** BigDecimal(13));

DocteurJDBC.*insert*(conn, **new** BigDecimal(10), **"House"**, **"Dr"**, **new** BigDecimal(10), **"babylon"**, **"1234"**, **"Étudiant"**, **new** BigDecimal(10));

DocteurJDBC.*insert*(conn, **new** BigDecimal(11), **"Evil"**, **"Dr"**, **new** BigDecimal(11), **"babylon"**, **"1234"**, **"Interne"**, **new** BigDecimal(11));

DocteurJDBC.*insert*(conn, **new** BigDecimal(12), **"Greenthumb"**, **"Dr"**, **new** BigDecimal(12), **"babylon"**, **"1234"**, **"Docteur"**, **new** BigDecimal(12));

DocteurJDBC.*insert*(conn, **new** BigDecimal(13), **"smith"**, **"john"**, **new** BigDecimal(13), **"babylon"**, **"1234"**, **"Étudiant"**, **new** BigDecimal(13));

DocteurJDBC.*insert*(conn, **new** BigDecimal(14), **"smith"**, **"john"**, **new** BigDecimal(14), **"babylon"**, **"1234"**, **"Interne"**, **new** BigDecimal(14));

DocteurJDBC.*insert*(conn, **new** BigDecimal(15), **"smith"**, **"john"**, **new** BigDecimal(15), **"babylon"**, **"1234"**, **"Docteur"**, **new** BigDecimal(15));

DossierPatientJDBC.*insert*(conn, **new** BigDecimal(10), **"lafleur"**, **"guy"**, **"M"**, **new** BigDecimal(10), date1, date1, **new** BigDecimal(10), **new** BigDecimal(10) );

DossierPatientJDBC.*insert*(conn, **new** BigDecimal(11), **"dryden"**, **"ken"**, **"M"**, **new** BigDecimal(11), date2, date2, **new** BigDecimal(11), **new** BigDecimal(11) );

DossierPatientJDBC.*insert*(conn, **new** BigDecimal(12), **"roy"**, **"patrick"**, **"M"**, **new** BigDecimal(12), date3, date3, **new** BigDecimal(12), **new** BigDecimal(12) );

DossierPatientJDBC.*insert*(conn, **new** BigDecimal(13), **"smith"**, **"john"**, **"M"**, **new** BigDecimal(13), date1, date1, **new** BigDecimal(10), **new** BigDecimal(13) );

DossierPatientJDBC.*insert*(conn, **new** BigDecimal(14), **"smith"**, **"john"**, **"M"**, **new** BigDecimal(14), date2, date2, **new** BigDecimal(11), **new** BigDecimal(14) );

DossierPatientJDBC.*insert*(conn, **new** BigDecimal(15), **"smith"**, **"john"**, **"M"**, **new** BigDecimal(15), date3, date3, **new** BigDecimal(12), **new** BigDecimal(15) );

ConsultationJDBC.*insert*(conn, **new** BigDecimal(10), **new** BigDecimal(10), date1,**"urgent"**, **new** BigDecimal(10));

ConsultationJDBC.*insert*(conn, **new** BigDecimal(10), **new** BigDecimal(11), date2,**"mort certaine"**, **new** BigDecimal(11));

ConsultationJDBC.*insert*(conn, **new** BigDecimal(10), **new** BigDecimal(12), date3,**"mort certaine"**, **new** BigDecimal(12));

ConsultationJDBC.*insert*(conn, **new** BigDecimal(11), **new** BigDecimal(13), date4,**"mort certaine"**, **new** BigDecimal(13));

ConsultationJDBC.*insert*(conn, **new** BigDecimal(12), **new** BigDecimal(10), date1,**"urgent"**, **new** BigDecimal(14));

ConsultationJDBC.*insert*(conn, **new** BigDecimal(13), **new** BigDecimal(11), date2,**"mort certaine"**, **new** BigDecimal(15));

ConsultationJDBC.*insert*(conn, **new** BigDecimal(14), **new** BigDecimal(12), date3,**"mort certaine"**, **new** BigDecimal(16));

ConsultationJDBC.*insert*(conn, **new** BigDecimal(14), **new** BigDecimal(13), date4,**"mort certaine"**, **new** BigDecimal(17));

ChirurgieJDBC.*insert*(conn, **new** BigDecimal(15), **new** BigDecimal(10), **new** BigDecimal(10), date1, **new** BigDecimal(13), **new** BigDecimal(13));

ChirurgieJDBC.*insert*(conn, **new** BigDecimal(16), **new** BigDecimal(11), **new** BigDecimal(11), date2, **new** BigDecimal(13), **new** BigDecimal(13));

ChirurgieJDBC.*insert*(conn, **new** BigDecimal(17), **new** BigDecimal(12), **new** BigDecimal(12), date3, **new** BigDecimal(14), **new** BigDecimal(14));

OrdonnanceChirurgieJDBC.*insert* (conn, **new** BigDecimal(15), **new** BigDecimal(15), **new** BigDecimal(15));

OrdonnanceChirurgieJDBC.*insert* (conn, **new** BigDecimal(16), **new** BigDecimal(16), **new** BigDecimal(16));

OrdonnanceChirurgieJDBC.*insert* (conn, **new** BigDecimal(17), **new** BigDecimal(17), **new** BigDecimal(17));

SpecialisationSalleJDBC.*insert*(conn, **new** BigDecimal(10), **new** BigDecimal(10), date1);

SpecialisationSalleJDBC.*insert*(conn, **new** BigDecimal(11), **new** BigDecimal(11), date2);

SpecialisationSalleJDBC.*insert*(conn, **new** BigDecimal(12), **new** BigDecimal(12), date3);

MedicamentJDBC.*insert*( conn, **new** BigDecimal(10), **"gumbaloun"**, **new** BigDecimal(10), **new** BigDecimal(12));

MedicamentJDBC.*insert*( conn, **new** BigDecimal(11), **"ratatat"**, **new** BigDecimal(11), **new** BigDecimal(11));

MedicamentJDBC.*insert*( conn, **new** BigDecimal(12), **"cortisone"**, **new** BigDecimal(12), **new** BigDecimal(10));

OrdonnanceMedicamentsJDBC.*insert*(conn,**new** BigDecimal(10), **new** BigDecimal(10), **new** BigDecimal(10));

OrdonnanceMedicamentsJDBC.*insert*(conn,**new** BigDecimal(11), **new** BigDecimal(10), **new** BigDecimal(10));

OrdonnanceMedicamentsJDBC.*insert*(conn,**new** BigDecimal(12), **new** BigDecimal(10), **new** BigDecimal(10));

OrdonnanceMedicamentsJDBC.*insert*(conn,**new** BigDecimal(13), **new** BigDecimal(10), **new** BigDecimal(10));

OrdonnanceMedicamentsJDBC.*insert*(conn,**new** BigDecimal(14), **new** BigDecimal(10), **new** BigDecimal(10));

} **catch** (SQLException e) {

e.printStackTrace();

}

}

**public static void** printIntStringStringInt(ResultSet rs, String header) **throws** SQLException{

System.***out***.print(header);

System.***out***.print(**"\n"**);

**while**(rs.next()){

*//Retrouver par le nom de la colonne*

**int** id = rs.getInt(1);

String nomM = rs.getString(2);

String prenomM = rs.getString(3);

**int** nbr = rs.getInt(4);

*//Afficher les valeurs*

System.***out***.print(**" "**);

System.***out***.print(id);

System.***out***.print(**" "**);

System.***out***.print(nomM);

System.***out***.print(**" "**);

System.***out***.print(prenomM);

System.***out***.print(**" "**);

System.***out***.print(nbr);

System.***out***.print(**"\n\n"**);

}

}

**public static void** printStringInt(ResultSet rs, String header) **throws** SQLException{

System.***out***.print(header);

System.***out***.print(**"\n"**);

**while**(rs.next()){

String s = rs.getString(1);

**int** nbr = rs.getInt(2);

*//Afficher les valeurs*

System.***out***.print(**" "**);

System.***out***.print(s);

System.***out***.print(**" "**);

System.***out***.print(nbr);

System.***out***.print(**"\n\n"**);

}

}

**public static void** printIntBigdecimal(ResultSet rs, String header) **throws** SQLException{

System.***out***.print(header);

System.***out***.print(**"\n"**);

**while**(rs.next()){

**int** nbr = rs.getInt(1);

BigDecimal big = rs.getBigDecimal(2);

*//Afficher les valeurs*

System.***out***.print(**" "**);

System.***out***.print(nbr);

System.***out***.print(**" "**);

System.***out***.print(big);

System.***out***.print(**"\n\n"**);

}

}

}

**package** tp2Jdbc.jdbc;

**import** org.hibernate.Session;

**import** java.math.BigDecimal;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**public class** SpecialiteJDBC {

**static** Session *session* = **null**;

**static** PreparedStatement *ps* = **null**;

**static** String *sql* = **null**;

**static** ResultSet *rs* = **null**;

**public static void** insert(Connection conn, BigDecimal code, String titre, String description ) **throws** SQLException {

*sql* = **"insert into specialite values (?, ?, ?)"**;

*ps* =conn.prepareStatement(*sql*);

*ps*.setBigDecimal(1,code);

*ps*.setString(2, titre);

*ps*.setString(3, description);

*ps*.executeUpdate();

}

**public static void** update(Connection conn, BigDecimal code, String titre, String description ) **throws** SQLException{

*sql* = **"update specialite set titre** **= ?, description** **= ? where CODE=?"**;

*ps* =conn.prepareStatement(*sql*);

*ps*.setBigDecimal(3,code);

*ps*.setString(1, titre);

*ps*.setString(2, description);

*ps*.executeUpdate();

}

**public static void** delete(Connection conn, BigDecimal code ) **throws** SQLException{

*sql* = **"delete from specialite where code** **= ?"**;

*ps* =conn.prepareStatement(*sql*);

*ps*.setBigDecimal(1,code);

*ps*.executeUpdate();

}

**public static void** printAll(ResultSet rs) **throws** SQLException{

System.***out***.print(**"---code------titre------description\n"**);

**while**(rs.next()){

*//Retrouver par le nom de la colonne*

**int** id = rs.getInt(1);

String string1 = rs.getString(2);

String string2 = rs.getString(3);

*//Afficher les valeurs*

System.***out***.print(**" "**);

System.***out***.print(id);

System.***out***.print(**" "**);

System.***out***.print(string1);

System.***out***.print(**" "**);

System.***out***.print(string2);

System.***out***.print(**" "**);

System.***out***.print(**"\n\n"**);

}

}

}

**3. JAVA - HIBERNATE**

Copier+Coller le contenu des fichiers Hibernate

+ Fichier de configuration (hibernate.properties ou hibernate.cfg.xml)

+ Fichiers XML de Mapping (Nom\_Classe.hbm)

*<?***xml version="1.0" encoding="UTF-8"***?>*

**<!DOCTYPE** **hibernate-configuration** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Configuration DTD 3.0//EN"** **"http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd"*>***

*<!--*

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<**hibernate-configuration**>

<**session-factory**>

<**property name="hibernate.dialect"**>org.hibernate.dialect.Oracle8iDialect</**property**>

<**property name="hibernate.connection.driver\_class"**>oracle.jdbc.OracleDriver</**property**>

<**property name="hibernate.connection.url"**>jdbc:oracle:thin:@localhost:1521:XE</**property**>

<**property name="hibernate.connection.username"**>ju</**property**>

<**property name="hibernate.connection.password"**>ju</**property**>

<**property name="hibernate.connection.pool\_size"**>1</**property**>

*<!--<property name="show\_sql">true</property>-->*

<**mapping resource="tp2Hibernate/entite/Ordonnancemedicaments.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Medicament.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Ordonnance.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Chirurgie.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Specialite.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Dossierpatient.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Salle.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Ordonnancechirurgie.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Categories.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Typechirurgie.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Specialisationsalle.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Docteur.hbm.xml"**/>

<**mapping resource="tp2Hibernate/entite/Consultation.hbm.xml"**/>

</**session-factory**>

</**hibernate-configuration**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Categories" table="CATEGORIES" schema="JU" optimistic-lock="version"**>

<**id name="idcategorie" type="big\_decimal"**>

<**column name="IDCATEGORIE" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**property name="nom" type="string"**>

<**column name="NOM" length="20" not-null="true"** />

</**property**>

<**property name="description" type="string"**>

<**column name="DESCRIPTION" length="20"** />

</**property**>

<**set name="medicaments" table="MEDICAMENT" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="CATEGORIE" precision="22" scale="0"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Medicament"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Chirurgie" table="CHIRURGIE" schema="JU" optimistic-lock="version"**>

<**id name="idchir" type="big\_decimal"**>

<**column name="IDCHIR" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**many-to-one name="salle" class="tp2Hibernate.entite.Salle" fetch="select"**>

<**column name="IDSALLE" precision="22" scale="0"** />

</**many-to-one**>

<**many-to-one name="typechirurgie" class="tp2Hibernate.entite.Typechirurgie" fetch="select"**>

<**column name="IDTYPE" precision="22" scale="0"** />

</**many-to-one**>

<**property name="datechirurgie" type="date"**>

<**column name="DATECHIRURGIE" length="7"** />

</**property**>

<**property name="heuredebut" type="big\_decimal"**>

<**column name="HEUREDEBUT" precision="22" scale="0"** />

</**property**>

<**property name="heurefin" type="big\_decimal"**>

<**column name="HEUREFIN" precision="22" scale="0"** />

</**property**>

<**set name="ordonnancechirurgies" table="ORDONNANCECHIRURGIE" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="IDCHIR" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Ordonnancechirurgie"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Consultation" table="CONSULTATION" schema="JU" optimistic-lock="version"**>

<**composite-id name="id" class="tp2Hibernate.entite.ConsultationId"**>

<**key-property name="codedocteur" type="big\_decimal"**>

<**column name="CODEDOCTEUR" precision="22" scale="0"** />

</**key-property**>

<**key-property name="numdos" type="big\_decimal"**>

<**column name="NUMDOS" precision="22" scale="0"** />

</**key-property**>

<**key-property name="datec" type="date"**>

<**column name="DATEC" length="7"** />

</**key-property**>

</**composite-id**>

<**many-to-one name="ordonnance" class="tp2Hibernate.entite.Ordonnance" fetch="select"**>

<**column name="NUMORD" precision="22" scale="0"** />

</**many-to-one**>

<**many-to-one name="docteur" class="tp2Hibernate.entite.Docteur" update="false" insert="false" fetch="select"**>

<**column name="CODEDOCTEUR" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**many-to-one name="dossierpatient" class="tp2Hibernate.entite.Dossierpatient" update="false" insert="false" fetch="select"**>

<**column name="NUMDOS" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**property name="diagnostic" type="string"**>

<**column name="DIAGNOSTIC" length="200" not-null="true"** />

</**property**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Docteur" table="DOCTEUR" schema="JU" optimistic-lock="version"**>

<**id name="matricule" type="big\_decimal"**>

<**column name="MATRICULE" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**many-to-one name="specialite" class="tp2Hibernate.entite.Specialite" fetch="select"**>

<**column name="SPECIALITE" precision="22" scale="0"** />

</**many-to-one**>

<**property name="nomm" type="string"**>

<**column name="NOMM" length="20" not-null="true"** />

</**property**>

<**property name="prenomm" type="string"**>

<**column name="PRENOMM" length="20" not-null="true"** />

</**property**>

<**property name="ville" type="string"**>

<**column name="VILLE" length="20"** />

</**property**>

<**property name="adresse" type="string"**>

<**column name="ADRESSE" length="100"** />

</**property**>

<**property name="niveau" type="string"**>

<**column name="NIVEAU" length="20"** />

</**property**>

<**property name="nbrpatients" type="big\_decimal"**>

<**column name="NBRPATIENTS" precision="22" scale="0"** />

</**property**>

<**set name="consultations" table="CONSULTATION" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="CODEDOCTEUR" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Consultation"** />

</**set**>

<**set name="dossierpatients" table="DOSSIERPATIENT" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="MATRICULE" precision="22" scale="0"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Dossierpatient"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Dossierpatient" table="DOSSIERPATIENT" schema="JU" optimistic-lock="version"**>

<**id name="numdos" type="big\_decimal"**>

<**column name="NUMDOS" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**many-to-one name="docteur" class="tp2Hibernate.entite.Docteur" fetch="select"**>

<**column name="MATRICULE" precision="22" scale="0"** />

</**many-to-one**>

<**property name="nomp" type="string"**>

<**column name="NOMP" length="20" not-null="true"** />

</**property**>

<**property name="prenomp" type="string"**>

<**column name="PRENOMP" length="20" not-null="true"** />

</**property**>

<**property name="sexe" type="string"**>

<**column name="SEXE" length="1"** />

</**property**>

<**property name="numas" type="big\_decimal"**>

<**column name="NUMAS" precision="22" scale="0" unique="true"** />

</**property**>

<**property name="datenaiss" type="date"**>

<**column name="DATENAISS" length="7"** />

</**property**>

<**property name="datec" type="date"**>

<**column name="DATEC" length="7"** />

</**property**>

<**property name="nbrconsultation" type="big\_decimal"**>

<**column name="NBRCONSULTATION" precision="22" scale="0"** />

</**property**>

<**set name="consultations" table="CONSULTATION" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="NUMDOS" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Consultation"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Medicament" table="MEDICAMENT" schema="JU" optimistic-lock="version"**>

<**id name="idmed" type="big\_decimal"**>

<**column name="IDMED" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**many-to-one name="categories" class="tp2Hibernate.entite.Categories" fetch="select"**>

<**column name="CATEGORIE" precision="22" scale="0"** />

</**many-to-one**>

<**property name="nommed" type="string"**>

<**column name="NOMMED" length="20" not-null="true"** />

</**property**>

<**property name="prix" type="big\_decimal"**>

<**column name="PRIX" precision="6"** />

</**property**>

<**set name="ordonnancemedicamentses" table="ORDONNANCEMEDICAMENTS" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="IDMED" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Ordonnancemedicaments"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Ordonnance" table="ORDONNANCE" schema="JU" optimistic-lock="version"**>

<**id name="numord" type="big\_decimal"**>

<**column name="NUMORD" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**property name="recommandations" type="string"**>

<**column name="RECOMMANDATIONS" length="20"** />

</**property**>

<**property name="type" type="string"**>

<**column name="TYPE" length="20"** />

</**property**>

<**property name="datec" type="date"**>

<**column name="DATEC" length="7"** />

</**property**>

<**property name="nbrmedicaments" type="big\_decimal"**>

<**column name="NBRMEDICAMENTS" precision="22" scale="0"** />

</**property**>

<**set name="ordonnancemedicamentses" table="ORDONNANCEMEDICAMENTS" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="NUMORD" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Ordonnancemedicaments"** />

</**set**>

<**set name="consultations" table="CONSULTATION" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="NUMORD" precision="22" scale="0"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Consultation"** />

</**set**>

<**set name="ordonnancechirurgies" table="ORDONNANCECHIRURGIE" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="NUMORD" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Ordonnancechirurgie"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Ordonnancechirurgie" table="ORDONNANCECHIRURGIE" schema="JU" optimistic-lock="version"**>

<**composite-id name="id" class="tp2Hibernate.entite.OrdonnancechirurgieId"**>

<**key-property name="numord" type="big\_decimal"**>

<**column name="NUMORD" precision="22" scale="0"** />

</**key-property**>

<**key-property name="idchir" type="big\_decimal"**>

<**column name="IDCHIR" precision="22" scale="0"** />

</**key-property**>

</**composite-id**>

<**many-to-one name="ordonnance" class="tp2Hibernate.entite.Ordonnance" update="false" insert="false" fetch="select"**>

<**column name="NUMORD" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**many-to-one name="chirurgie" class="tp2Hibernate.entite.Chirurgie" update="false" insert="false" fetch="select"**>

<**column name="IDCHIR" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**property name="rang" type="big\_decimal"**>

<**column name="RANG" precision="22" scale="0"** />

</**property**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Ordonnancemedicaments" table="ORDONNANCEMEDICAMENTS" schema="JU" optimistic-lock="version"**>

<**composite-id name="id" class="tp2Hibernate.entite.OrdonnancemedicamentsId"**>

<**key-property name="numord" type="big\_decimal"**>

<**column name="NUMORD" precision="22" scale="0"** />

</**key-property**>

<**key-property name="idmed" type="big\_decimal"**>

<**column name="IDMED" precision="22" scale="0"** />

</**key-property**>

</**composite-id**>

<**many-to-one name="ordonnance" class="tp2Hibernate.entite.Ordonnance" update="false" insert="false" fetch="select"**>

<**column name="NUMORD" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**many-to-one name="medicament" class="tp2Hibernate.entite.Medicament" update="false" insert="false" fetch="select"**>

<**column name="IDMED" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**property name="nbboites" type="big\_decimal"**>

<**column name="NBBOITES" precision="22" scale="0"** />

</**property**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Salle" table="SALLE" schema="JU" optimistic-lock="version"**>

<**id name="idsalle" type="big\_decimal"**>

<**column name="IDSALLE" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**property name="nom" type="string"**>

<**column name="NOM" length="20" not-null="true"** />

</**property**>

<**set name="specialisationsalles" table="SPECIALISATIONSALLE" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="IDSALLE" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Specialisationsalle"** />

</**set**>

<**set name="chirurgies" table="CHIRURGIE" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="IDSALLE" precision="22" scale="0"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Chirurgie"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Specialisationsalle" table="SPECIALISATIONSALLE" schema="JU" optimistic-lock="version"**>

<**composite-id name="id" class="tp2Hibernate.entite.SpecialisationsalleId"**>

<**key-property name="idtype" type="big\_decimal"**>

<**column name="IDTYPE" precision="22" scale="0"** />

</**key-property**>

<**key-property name="idsalle" type="big\_decimal"**>

<**column name="IDSALLE" precision="22" scale="0"** />

</**key-property**>

</**composite-id**>

<**many-to-one name="salle" class="tp2Hibernate.entite.Salle" update="false" insert="false" fetch="select"**>

<**column name="IDSALLE" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**many-to-one name="typechirurgie" class="tp2Hibernate.entite.Typechirurgie" update="false" insert="false" fetch="select"**>

<**column name="IDTYPE" precision="22" scale="0" not-null="true"** />

</**many-to-one**>

<**property name="datec" type="date"**>

<**column name="DATEC" length="7"** />

</**property**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Specialite" table="SPECIALITE" schema="JU" optimistic-lock="version"**>

<**id name="code" type="big\_decimal"**>

<**column name="CODE" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**property name="titre" type="string"**>

<**column name="TITRE" length="20" not-null="true"** />

</**property**>

<**property name="description" type="string"**>

<**column name="DESCRIPTION" length="20"** />

</**property**>

<**set name="docteurs" table="DOCTEUR" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="SPECIALITE" precision="22" scale="0"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Docteur"** />

</**set**>

</**class**>

</**hibernate-mapping**>

*<?***xml version="1.0"***?>*

**<!DOCTYPE** **hibernate-mapping** **PUBLIC** **"-//tp2Hibernate.Tp2Hibernate/tp2Hibernate.Tp2Hibernate Mapping DTD 3.0//EN"**

**"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd"*>***

*<!-- Generated Apr 8, 2018 2:33:09 AM by tp2Hibernate.HibernateUtil Tools 4.3.1 -->*

<**hibernate-mapping**>

<**class name="tp2Hibernate.entite.Typechirurgie" table="TYPECHIRURGIE" schema="JU" optimistic-lock="version"**>

<**id name="idtype" type="big\_decimal"**>

<**column name="IDTYPE" precision="22" scale="0"** />

<**generator class="assigned"** />

</**id**>

<**property name="nom" type="string"**>

<**column name="NOM" length="20" not-null="true"** />

</**property**>

<**property name="description" type="string"**>

<**column name="DESCRIPTION" length="200"** />

</**property**>

<**set name="chirurgies" table="CHIRURGIE" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="IDTYPE" precision="22" scale="0"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Chirurgie"** />

</**set**>

<**set name="specialisationsalles" table="SPECIALISATIONSALLE" inverse="true" lazy="true" fetch="select"**>

<**key**>

<**column name="IDTYPE" precision="22" scale="0" not-null="true"** />

</**key**>

<**one-to-many class="tp2Hibernate.entite.Specialisationsalle"** />

</**set**>

</**class**>

</**hibernate-mapping**>

Copier+Coller le contenu des classes Java (main et entités)

**package** tp2Hibernate;

**import** org.hibernate.Criteria;

**import** org.hibernate.criterion.Projections;

**import** org.hibernate.criterion.Restrictions;

**import** org.hibernate.HibernateException;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Session;

**import** org.hibernate.cfg.Configuration;

**import** tp2Hibernate.dao.HibernateUtil;

**import** tp2Hibernate.entite.\*;

**import** java.util.\*;

**import** java.util.concurrent.TimeUnit;

**import** java.util.logging.Level;

**public class** Tp2Hibernate {

**static** SessionFactory *sessionFactory* = **null**;

**private static final** String ***REQ1*** = **"1) AFFICHER LE NOMBRE DE CHIRURGIES PAR DOCTEUR"**;

**private static final** String ***REQ2*** = **"2) AFFICHER LE NOMBRE DE CONSULTATIONS PAR DOCTEUR"**;

**private static final** String ***REQ3*** = **"3) AFFICHER LE NOMBRE DE CONSULTATIONS PAR ANNÉE"**;

**private static final** String ***REQ4*** = **"4) AFFICHER LE NOMBRE DE MÉDICAMENTS PRESCRITS PAR DOCTEUR"**;

**private static final** String ***REQ5*** = **"5) RATIO DES CHIRURGIES VERSUS TRAITEMENTS MÉDICAMENTEUX PAR ANNEES"**;

**public static** Session getSession() { **return** *sessionFactory*.isOpen()? *sessionFactory*.openSession(): *sessionFactory*.getCurrentSession(); }

**public static void** closeSession(){ *sessionFactory*.close(); }

*/\*\**

*\* Affiche le nombre de chirurgies pas docteur*

*\** ***@param session*** *la session hibernate*

*\*/*

**private static void** printNbrChirurgieParDocteur(Session session){

List results;

Criteria criteria;

criteria = session.createCriteria(Docteur.**class**, **"d"**)

.createCriteria(**"consultations"**, **"cons"**)

.createCriteria(**"ordonnance"**, **"ord"**)

.createCriteria(**"ordonnancechirurgies"**, **"ordchir"**)

.createCriteria(**"chirurgie"**, **"chir"**)

.setProjection(Projections.*projectionList*()

.add(Projections.*groupProperty*(**"d.matricule"**))

.add(Projections.*groupProperty*(**"d.nomm"**))

.add(Projections.*groupProperty*(**"d.prenomm"**))

.add(Projections.*count*(**"ordchir.ordonnance"**))

);

results = criteria.list();

System.***out***.println(***REQ1***);

System.***out***.println(**"ID----Nom------Prenom------nbrChirurgies"**);

**for** (Object result : results) {

Object[] donnees = (Object[]) result;

System.***out***.println(donnees[0] + **" "** + donnees[1] + **" "** + donnees[2] + **" "** + donnees[3]);

}

System.***out***.println(**"\n"**);

}

*/\*\**

*\* Affiche le nombre de consultations pas docteur*

*\** ***@param session*** *la session hibernate*

*\*/*

**private static void** printNbrConsultationParDocteur(Session session){

List results;

Criteria criteria;

criteria = session.createCriteria(Docteur.**class**, **"d"**)

.createCriteria(**"consultations"**, **"cons"**)

.setProjection(Projections.*projectionList*()

.add(Projections.*groupProperty*(**"d.matricule"**))

.add(Projections.*groupProperty*(**"d.nomm"**))

.add(Projections.*groupProperty*(**"d.prenomm"**))

.add(Projections.*count*(**"cons.ordonnance"**))

);

results = criteria.list();

System.***out***.println(***REQ2***);

System.***out***.println(**"ID----Nom------Prenom------nbrConsultations"**);

**for** (Object result : results) {

Object[] donnees = (Object[]) result;

System.***out***.println(donnees[0] + **" "** + donnees[1] + **" "** + donnees[2] + **" "** + donnees[3]);

}

System.***out***.println(**"\n"**);

}

*/\*\**

*\* Affiche le nombre de consultations par année*

*\** ***@param session*** *la session hibernate*

*\*/*

**private static void** printNbrConsultationParAnnee(Session session){

List results;

Criteria criteria;

criteria = session.createCriteria(Consultation.**class**, **"c"**)

.setProjection(Projections.*projectionList*()

.add(Projections.*groupProperty*(**"c.id"**))

.add(Projections.*rowCount*())

);

results = criteria.list();

System.***out***.println(***REQ3***);

System.***out***.println(**"Annees----nbrConsultations"**);

Map<Integer, Object> anneeConsultation = **new** HashMap<>();

Calendar calendar = **new** GregorianCalendar();

**for** (Object result : results) {

Object[] donnees = (Object[]) result;

ConsultationId cid = (ConsultationId) donnees[0];

java.util.Date date = cid.getDatec();

calendar.setTime(date);

Integer count = (Integer) anneeConsultation.get(calendar.get(Calendar.***YEAR***));

**if** (count == **null**) {

anneeConsultation.put(calendar.get(Calendar.***YEAR***), 1);

} **else** {

anneeConsultation.put(calendar.get(Calendar.***YEAR***), ++count);

}

}

**for** (Map.Entry<Integer, Object> entry : anneeConsultation.entrySet()) {

System.***out***.println(entry.getKey() + **" "** + entry.getValue());

}

System.***out***.println(**"\n"**);

}

*/\*\**

*\* Affiche le nombre de de médicaments prescrits pas docteur*

*\** ***@param session*** *la session hibernate*

*\*/*

**private static void** printNbrMedicamentsPrescritParDocteur (Session session){

List results;

Criteria criteria;

criteria = session.createCriteria(Docteur.**class**, **"d"**)

.createCriteria(**"consultations"**, **"cons"**)

.createCriteria(**"ordonnance"**, **"ord"**)

.setProjection(Projections.*projectionList*()

.add(Projections.*groupProperty*(**"d.matricule"**))

.add(Projections.*groupProperty*(**"d.nomm"**))

.add(Projections.*groupProperty*(**"d.prenomm"**))

.add(Projections.*sum*(**"ord.nbrmedicaments"**))

);

results = criteria.list();

System.***out***.println(***REQ4***);

System.***out***.println(**"ID----Nom------Prenom------nbrmedicaments"**);

**for** (Object result : results) {

Object[] donnees = (Object[]) result;

System.***out***.println(donnees[0] + **" "** + donnees[1] + **" "** + donnees[2] + **" "** + donnees[3]);

}

System.***out***.println(**"\n"**);

}

*/\*\**

*\* Affiche le nombre de chirurgies vs le nbr de traitements médicamenteux par années*

*\** ***@param session*** *la session hibernate*

*\*/*

**private static void** printRatioChirurgiesVsTraitementsMedicamenteuxParAnnees (Session session){

List results;

Criteria criteria;

*//list all completed cirurgies*

criteria = session.createCriteria(Chirurgie.**class**, **"c"**)

.setProjection(Projections.*projectionList*()

.add(Projections.*groupProperty*(**"c.datechirurgie"**))

.add(Projections.*rowCount*())

);

List chirurgiepardateList = criteria.list();

*//list all drugs prescriptions*

criteria = session.createCriteria(Ordonnance.**class**, **"o"**)

.add(Restrictions.*eq*(**"o.type"**, **"Médicaments"**))

.setProjection(Projections.*projectionList*()

.add(Projections.*groupProperty*(**"o.datec"**))

.add(Projections.*rowCount*())

);

List traitementMedicamenteuxList = criteria.list();

*//map the list*

Map<Integer, Object> chirurgiepardateMap = HibernateUtil.*listToMap*(chirurgiepardateList);

Map<Integer, Object> traitementMedicamenteuxMap = HibernateUtil.*listToMap*(traitementMedicamenteuxList);Map<Integer, Integer> resultat = **new** HashMap<>();

*//map results*

**for** (Map.Entry<Integer, Object> entry : chirurgiepardateMap.entrySet()) {

**for** (Map.Entry<Integer, Object> entry2 : traitementMedicamenteuxMap.entrySet()) {

**if** (entry.getKey().equals(entry2.getKey())) {

Integer l = (Integer) entry.getValue();

Integer l2 = (Integer) entry2.getValue();

resultat.put(entry.getKey(), l / l2);

}

}

}

*//print results*

System.***out***.println(***REQ5***);

System.***out***.println(**"Annees----ratio"**);

**for** (Map.Entry<Integer, Integer> entry : resultat.entrySet()) {

System.***out***.println(entry.getKey() + **" "** + entry.getValue());

}

System.***out***.println(**"\n"**);

}

**public static void** main(**final** String[] args) {

**try** {

*sessionFactory* = **new** Configuration()

.configure(**"hibernate.cfg.xml"**)

.setProperty(**"hibernate.connection.url"**, args[0])

.setProperty(**"hibernate.connection.username"**, args[1])

.setProperty(**"hibernate.connection.password"**, args[2])

.buildSessionFactory();

*//disable log*

java.util.logging.Logger.*getLogger*(**"org.hibernate"**).setLevel(Level.***OFF***);

} **catch** (Throwable ex) {

**throw new** ExceptionInInitializerError(ex);

}

Session session = **null**;

**try** {

session = *sessionFactory*.openSession();

HibernateUtil.*populateTables*();

*//wait to print stack trace before finally*

TimeUnit.***SECONDS***.sleep(1);

} **catch** (Exception e) {

e.printStackTrace();

} **finally** {

**if** (session != **null**) {

*printNbrChirurgieParDocteur*(session);

*printNbrConsultationParDocteur*(session);

*printNbrConsultationParAnnee*(session);

*//ne pas évaluer*

*// printNbrMedicamentsPrescritParDocteur(session);*

*// printRatioChirurgiesVsTraitementsMedicamenteuxParAnnees(session);*

*//clean up*

session.close();

*sessionFactory*.close();

}

}

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Categories generated by hbm2java*

*\*/*

**public class** Categories **implements** java.io.Serializable {

**private** BigDecimal **idcategorie**;

**private** String **nom**;

**private** String **description**;

**private** Set **medicaments** = **new** HashSet(0);

**public** Categories() {

}

**public** Categories(BigDecimal idcategorie, String nom) {

**this**.**idcategorie** = idcategorie;

**this**.**nom** = nom;

}

**public** Categories(BigDecimal idcategorie, String nom, String description, Set medicaments) {

**this**.**idcategorie** = idcategorie;

**this**.**nom** = nom;

**this**.**description** = description;

**this**.**medicaments** = medicaments;

}

**public** BigDecimal getIdcategorie() {

**return this**.**idcategorie**;

}

**public void** setIdcategorie(BigDecimal idcategorie) {

**this**.**idcategorie** = idcategorie;

}

**public** String getNom() {

**return this**.**nom**;

}

**public void** setNom(String nom) {

**this**.**nom** = nom;

}

**public** String getDescription() {

**return this**.**description**;

}

**public void** setDescription(String description) {

**this**.**description** = description;

}

**public** Set getMedicaments() {

**return this**.**medicaments**;

}

**public void** setMedicaments(Set medicaments) {

**this**.**medicaments** = medicaments;

}

@Override

**public** String toString() {

**return "Categories{"** +

**"idcategorie="** + **idcategorie** +

**", nom='"** + **nom** + **'\''** +

**", description='"** + **description** + **'\''** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by tp2Hibernate.HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.Date;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Chirurgie generated by hbm2java*

*\*/*

**public class** Chirurgie **implements** java.io.Serializable {

**private** BigDecimal **idchir**;

**private** Salle **salle**;

**private** Typechirurgie **typechirurgie**;

**private** Date **datechirurgie**;

**private** BigDecimal **heuredebut**;

**private** BigDecimal **heurefin**;

**private** Set **ordonnancechirurgies** = **new** HashSet(0);

**public** Chirurgie() {

}

**public** Chirurgie(BigDecimal idchir) {

**this**.**idchir** = idchir;

}

**public** Chirurgie(BigDecimal idchir, Salle salle, Typechirurgie typechirurgie, Date datechirurgie, BigDecimal heuredebut, BigDecimal heurefin, Set ordonnancechirurgies) {

**this**.**idchir** = idchir;

**this**.**salle** = salle;

**this**.**typechirurgie** = typechirurgie;

**this**.**datechirurgie** = datechirurgie;

**this**.**heuredebut** = heuredebut;

**this**.**heurefin** = heurefin;

**this**.**ordonnancechirurgies** = ordonnancechirurgies;

}

**public** BigDecimal getIdchir() {

**return this**.**idchir**;

}

**public void** setIdchir(BigDecimal idchir) {

**this**.**idchir** = idchir;

}

**public** Salle getSalle() {

**return this**.**salle**;

}

**public void** setSalle(Salle salle) {

**this**.**salle** = salle;

}

**public** Typechirurgie getTypechirurgie() {

**return this**.**typechirurgie**;

}

**public void** setTypechirurgie(Typechirurgie typechirurgie) {

**this**.**typechirurgie** = typechirurgie;

}

**public** Date getDatechirurgie() {

**return this**.**datechirurgie**;

}

**public void** setDatechirurgie(Date datechirurgie) {

**this**.**datechirurgie** = datechirurgie;

}

**public** BigDecimal getHeuredebut() {

**return this**.**heuredebut**;

}

**public void** setHeuredebut(BigDecimal heuredebut) {

**this**.**heuredebut** = heuredebut;

}

**public** BigDecimal getHeurefin() {

**return this**.**heurefin**;

}

**public void** setHeurefin(BigDecimal heurefin) {

**this**.**heurefin** = heurefin;

}

**public** Set getOrdonnancechirurgies() {

**return this**.**ordonnancechirurgies**;

}

**public void** setOrdonnancechirurgies(Set ordonnancechirurgies) {

**this**.**ordonnancechirurgies** = ordonnancechirurgies;

}

@Override

**public** String toString() {

**return "Chirurgie{"** +

**"idchir="** + **idchir** +

**", salle="** + **salle** +

**", typechirurgie="** + **typechirurgie** +

**", datechirurgie="** + **datechirurgie** +

**", heuredebut="** + **heuredebut** +

**", heurefin="** + **heurefin** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

*/\*\**

*\* Consultation generated by hbm2java*

*\*/*

**public class** Consultation **implements** java.io.Serializable {

**private** ConsultationId **id**;

**private** Ordonnance **ordonnance**;

**private** Docteur **docteur**;

**private** Dossierpatient **dossierpatient**;

**private** String **diagnostic**;

**public** Consultation() {

}

**public** Consultation(ConsultationId id, Ordonnance ordonnance, Docteur docteur, Dossierpatient dossierpatient, String diagnostic) {

**this**.**id** = id;

**this**.**ordonnance** = ordonnance;

**this**.**docteur** = docteur;

**this**.**dossierpatient** = dossierpatient;

**this**.**diagnostic** = diagnostic;

}

**public** ConsultationId getId() {

**return this**.**id**;

}

**public void** setId(ConsultationId id) {

**this**.**id** = id;

}

**public** Ordonnance getOrdonnance() {

**return this**.**ordonnance**;

}

**public void** setOrdonnance(Ordonnance ordonnance) {

**this**.**ordonnance** = ordonnance;

}

**public** Docteur getDocteur() {

**return this**.**docteur**;

}

**public void** setDocteur(Docteur docteur) {

**this**.**docteur** = docteur;

}

**public** Dossierpatient getDossierpatient() {

**return this**.**dossierpatient**;

}

**public void** setDossierpatient(Dossierpatient dossierpatient) {

**this**.**dossierpatient** = dossierpatient;

}

**public** String getDiagnostic() {

**return this**.**diagnostic**;

}

**public void** setDiagnostic(String diagnostic) {

**this**.**diagnostic** = diagnostic;

}

@Override

**public** String toString() {

**return "Consultation{"** +

**"id="** + **id** +

**", \n** **ordonnance="** + **ordonnance** +

**", \n** **docteur="** + **docteur** +

**", \n** **dossierpatient="** + **dossierpatient** +

**", \n** **diagnostic='"** + **diagnostic** + **'\''** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.Date;

*/\*\**

*\* ConsultationId generated by hbm2java*

*\*/*

**public class** ConsultationId **implements** java.io.Serializable {

**private** BigDecimal **codedocteur**;

**private** BigDecimal **numdos**;

**private** Date **datec**;

**public** ConsultationId() {

}

**public** ConsultationId(BigDecimal codedocteur, BigDecimal numdos, Date datec) {

**this**.**codedocteur** = codedocteur;

**this**.**numdos** = numdos;

**this**.**datec** = datec;

}

**public** BigDecimal getCodedocteur() {

**return this**.**codedocteur**;

}

**public void** setCodedocteur(BigDecimal codedocteur) {

**this**.**codedocteur** = codedocteur;

}

**public** BigDecimal getNumdos() {

**return this**.**numdos**;

}

**public void** setNumdos(BigDecimal numdos) {

**this**.**numdos** = numdos;

}

**public** Date getDatec() {

**return this**.**datec**;

}

**public void** setDatec(Date datec) {

**this**.**datec** = datec;

}

**public boolean** equals(Object other) {

**if** ( (**this** == other ) ) **return true**;

**if** ( (other == **null** ) ) **return false**;

**if** ( !(other **instanceof** ConsultationId) ) **return false**;

ConsultationId castOther = ( ConsultationId ) other;

**return** ( (**this**.getCodedocteur()==castOther.getCodedocteur()) || ( **this**.getCodedocteur()!=**null** && castOther.getCodedocteur()!=**null** && **this**.getCodedocteur().equals(castOther.getCodedocteur()) ) )

&& ( (**this**.getNumdos()==castOther.getNumdos()) || ( **this**.getNumdos()!=**null** && castOther.getNumdos()!=**null** && **this**.getNumdos().equals(castOther.getNumdos()) ) )

&& ( (**this**.getDatec()==castOther.getDatec()) || ( **this**.getDatec()!=**null** && castOther.getDatec()!=**null** && **this**.getDatec().equals(castOther.getDatec()) ) );

}

**public int** hashCode() {

**int** result = 17;

result = 37 \* result + ( getCodedocteur() == **null** ? 0 : **this**.getCodedocteur().hashCode() );

result = 37 \* result + ( getNumdos() == **null** ? 0 : **this**.getNumdos().hashCode() );

result = 37 \* result + ( getDatec() == **null** ? 0 : **this**.getDatec().hashCode() );

**return** result;

}

@Override

**public** String toString() {

**return "ConsultationId{"** +

**"codedocteur="** + **codedocteur** +

**", numdos="** + **numdos** +

**", datec="** + **datec** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Docteur generated by hbm2java*

*\*/*

**public class** Docteur **implements** java.io.Serializable {

**private** BigDecimal **matricule**;

**private** Specialite **specialite**;

**private** String **nomm**;

**private** String **prenomm**;

**private** String **ville**;

**private** String **adresse**;

**private** String **niveau**;

**private** BigDecimal **nbrpatients**;

**private** Set **consultations** = **new** HashSet(0);

**private** Set **dossierpatients** = **new** HashSet(0);

**public** Docteur() {

}

**public** Docteur(BigDecimal matricule, String nomm, String prenomm) {

**this**.**matricule** = matricule;

**this**.**nomm** = nomm;

**this**.**prenomm** = prenomm;

}

**public** Docteur(BigDecimal matricule, Specialite specialite, String nomm, String prenomm, String ville, String adresse, String niveau, BigDecimal nbrpatients, Set consultations, Set dossierpatients) {

**this**.**matricule** = matricule;

**this**.**specialite** = specialite;

**this**.**nomm** = nomm;

**this**.**prenomm** = prenomm;

**this**.**ville** = ville;

**this**.**adresse** = adresse;

**this**.**niveau** = niveau;

**this**.**nbrpatients** = nbrpatients;

**this**.**consultations** = consultations;

**this**.**dossierpatients** = dossierpatients;

}

**public** BigDecimal getMatricule() {

**return this**.**matricule**;

}

**public void** setMatricule(BigDecimal matricule) {

**this**.**matricule** = matricule;

}

**public** Specialite getSpecialite() {

**return this**.**specialite**;

}

**public void** setSpecialite(Specialite specialite) {

**this**.**specialite** = specialite;

}

**public** String getNomm() {

**return this**.**nomm**;

}

**public void** setNomm(String nomm) {

**this**.**nomm** = nomm;

}

**public** String getPrenomm() {

**return this**.**prenomm**;

}

**public void** setPrenomm(String prenomm) {

**this**.**prenomm** = prenomm;

}

**public** String getVille() {

**return this**.**ville**;

}

**public void** setVille(String ville) {

**this**.**ville** = ville;

}

**public** String getAdresse() {

**return this**.**adresse**;

}

**public void** setAdresse(String adresse) {

**this**.**adresse** = adresse;

}

**public** String getNiveau() {

**return this**.**niveau**;

}

**public void** setNiveau(String niveau) {

**this**.**niveau** = niveau;

}

**public** BigDecimal getNbrpatients() {

**return this**.**nbrpatients**;

}

**public void** setNbrpatients(BigDecimal nbrpatients) {

**this**.**nbrpatients** = nbrpatients;

}

**public** Set getConsultations() {

**return this**.**consultations**;

}

**public void** setConsultations(Set consultations) {

**this**.**consultations** = consultations;

}

**public** Set getDossierpatients() {

**return this**.**dossierpatients**;

}

**public void** setDossierpatients(Set dossierpatients) {

**this**.**dossierpatients** = dossierpatients;

}

@Override

**public** String toString() {

**return "Docteur{"** +

**"matricule="** + **matricule** +

**", specialite="** + **specialite** +

**", nomm='"** + **nomm** + **'\''** +

**", prenomm='"** + **prenomm** + **'\''** +

**", ville='"** + **ville** + **'\''** +

**", adresse='"** + **adresse** + **'\''** +

**", niveau='"** + **niveau** + **'\''** +

**", nbrpatients="** + **nbrpatients** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.Date;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Dossierpatient generated by hbm2java*

*\*/*

**public class** Dossierpatient **implements** java.io.Serializable {

**private** BigDecimal **numdos**;

**private** Docteur **docteur**;

**private** String **nomp**;

**private** String **prenomp**;

**private** String **sexe**;

**private** BigDecimal **numas**;

**private** Date **datenaiss**;

**private** Date **datec**;

**private** BigDecimal **nbrconsultation**;

**private** Set **consultations** = **new** HashSet(0);

**public** Dossierpatient() {

}

**public** Dossierpatient(BigDecimal numdos, String nomp, String prenomp) {

**this**.**numdos** = numdos;

**this**.**nomp** = nomp;

**this**.**prenomp** = prenomp;

}

**public** Dossierpatient(BigDecimal numdos, Docteur docteur, String nomp, String prenomp, String sexe, BigDecimal numas, Date datenaiss, Date datec, BigDecimal nbrconsultation, Set consultations) {

**this**.**numdos** = numdos;

**this**.**docteur** = docteur;

**this**.**nomp** = nomp;

**this**.**prenomp** = prenomp;

**this**.**sexe** = sexe;

**this**.**numas** = numas;

**this**.**datenaiss** = datenaiss;

**this**.**datec** = datec;

**this**.**nbrconsultation** = nbrconsultation;

**this**.**consultations** = consultations;

}

**public** BigDecimal getNumdos() {

**return this**.**numdos**;

}

**public void** setNumdos(BigDecimal numdos) {

**this**.**numdos** = numdos;

}

**public** Docteur getDocteur() {

**return this**.**docteur**;

}

**public void** setDocteur(Docteur docteur) {

**this**.**docteur** = docteur;

}

**public** String getNomp() {

**return this**.**nomp**;

}

**public void** setNomp(String nomp) {

**this**.**nomp** = nomp;

}

**public** String getPrenomp() {

**return this**.**prenomp**;

}

**public void** setPrenomp(String prenomp) {

**this**.**prenomp** = prenomp;

}

**public** String getSexe() {

**return this**.**sexe**;

}

**public void** setSexe(String sexe) {

**this**.**sexe** = sexe;

}

**public** BigDecimal getNumas() {

**return this**.**numas**;

}

**public void** setNumas(BigDecimal numas) {

**this**.**numas** = numas;

}

**public** Date getDatenaiss() {

**return this**.**datenaiss**;

}

**public void** setDatenaiss(Date datenaiss) {

**this**.**datenaiss** = datenaiss;

}

**public** Date getDatec() {

**return this**.**datec**;

}

**public void** setDatec(Date datec) {

**this**.**datec** = datec;

}

**public** BigDecimal getNbrconsultation() {

**return this**.**nbrconsultation**;

}

**public void** setNbrconsultation(BigDecimal nbrconsultation) {

**this**.**nbrconsultation** = nbrconsultation;

}

**public** Set getConsultations() {

**return this**.**consultations**;

}

**public void** setConsultations(Set consultations) {

**this**.**consultations** = consultations;

}

@Override

**public** String toString() {

**return "Dossierpatient{"** +

**"numdos="** + **numdos** +

**", docteur="** + **docteur** +

**", nomp='"** + **nomp** + **'\''** +

**", prenomp='"** + **prenomp** + **'\''** +

**", sexe='"** + **sexe** + **'\''** +

**", numas="** + **numas** +

**", datenaiss="** + **datenaiss** +

**", datec="** + **datec** +

**", nbrconsultation="** + **nbrconsultation** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Medicament generated by hbm2java*

*\*/*

**public class** Medicament **implements** java.io.Serializable {

**private** BigDecimal **idmed**;

**private** Categories **categories**;

**private** String **nommed**;

**private** BigDecimal **prix**;

**private** Set **ordonnancemedicamentses** = **new** HashSet(0);

**public** Medicament() {

}

**public** Medicament(BigDecimal idmed, String nommed) {

**this**.**idmed** = idmed;

**this**.**nommed** = nommed;

}

**public** Medicament(BigDecimal idmed, Categories categories, String nommed, BigDecimal prix, Set ordonnancemedicamentses) {

**this**.**idmed** = idmed;

**this**.**categories** = categories;

**this**.**nommed** = nommed;

**this**.**prix** = prix;

**this**.**ordonnancemedicamentses** = ordonnancemedicamentses;

}

**public** BigDecimal getIdmed() {

**return this**.**idmed**;

}

**public void** setIdmed(BigDecimal idmed) {

**this**.**idmed** = idmed;

}

**public** Categories getCategories() {

**return this**.**categories**;

}

**public void** setCategories(Categories categories) {

**this**.**categories** = categories;

}

**public** String getNommed() {

**return this**.**nommed**;

}

**public void** setNommed(String nommed) {

**this**.**nommed** = nommed;

}

**public** BigDecimal getPrix() {

**return this**.**prix**;

}

**public void** setPrix(BigDecimal prix) {

**this**.**prix** = prix;

}

**public** Set getOrdonnancemedicamentses() {

**return this**.**ordonnancemedicamentses**;

}

**public void** setOrdonnancemedicamentses(Set ordonnancemedicamentses) {

**this**.**ordonnancemedicamentses** = ordonnancemedicamentses;

}

@Override

**public** String toString() {

**return "Medicament{"** +

**"idmed="** + **idmed** +

**", categories="** + **categories** +

**", nommed='"** + **nommed** + **'\''** +

**", prix="** + **prix** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.Date;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Ordonnance generated by hbm2java*

*\*/*

**public class** Ordonnance **implements** java.io.Serializable {

**private** BigDecimal **numord**;

**private** String **recommandations**;

**private** String **type**;

**private** Date **datec**;

**private** BigDecimal **nbrmedicaments**;

**private** Set **ordonnancemedicamentses** = **new** HashSet(0);

**private** Set **consultations** = **new** HashSet(0);

**private** Set **ordonnancechirurgies** = **new** HashSet(0);

**public** Ordonnance() {

}

**public** Ordonnance(BigDecimal numord) {

**this**.**numord** = numord;

}

**public** Ordonnance(BigDecimal numord, String recommandations, String type, Date datec, BigDecimal nbrmedicaments, Set ordonnancemedicamentses, Set consultations, Set ordonnancechirurgies) {

**this**.**numord** = numord;

**this**.**recommandations** = recommandations;

**this**.**type** = type;

**this**.**datec** = datec;

**this**.**nbrmedicaments** = nbrmedicaments;

**this**.**ordonnancemedicamentses** = ordonnancemedicamentses;

**this**.**consultations** = consultations;

**this**.**ordonnancechirurgies** = ordonnancechirurgies;

}

**public** BigDecimal getNumord() {

**return this**.**numord**;

}

**public void** setNumord(BigDecimal numord) {

**this**.**numord** = numord;

}

**public** String getRecommandations() {

**return this**.**recommandations**;

}

**public void** setRecommandations(String recommandations) {

**this**.**recommandations** = recommandations;

}

**public** String getType() {

**return this**.**type**;

}

**public void** setType(String type) {

**this**.**type** = type;

}

**public** Date getDatec() {

**return this**.**datec**;

}

**public void** setDatec(Date datec) {

**this**.**datec** = datec;

}

**public** BigDecimal getNbrmedicaments() {

**return this**.**nbrmedicaments**;

}

**public void** setNbrmedicaments(BigDecimal nbrmedicaments) {

**this**.**nbrmedicaments** = nbrmedicaments;

}

**public** Set getOrdonnancemedicamentses() {

**return this**.**ordonnancemedicamentses**;

}

**public void** setOrdonnancemedicamentses(Set ordonnancemedicamentses) {

**this**.**ordonnancemedicamentses** = ordonnancemedicamentses;

}

**public** Set getConsultations() {

**return this**.**consultations**;

}

**public void** setConsultations(Set consultations) {

**this**.**consultations** = consultations;

}

**public** Set getOrdonnancechirurgies() {

**return this**.**ordonnancechirurgies**;

}

**public void** setOrdonnancechirurgies(Set ordonnancechirurgies) {

**this**.**ordonnancechirurgies** = ordonnancechirurgies;

}

@Override

**public** String toString() {

**return "Ordonnance{"** +

**"numord="** + **numord** +

**", recommandations='"** + **recommandations** + **'\''** +

**", type='"** + **type** + **'\''** +

**", datec="** + **datec** +

**", nbrmedicaments="** + **nbrmedicaments** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

*/\*\**

*\* Ordonnancechirurgie generated by hbm2java*

*\*/*

**public class** Ordonnancechirurgie **implements** java.io.Serializable {

**private** OrdonnancechirurgieId **id**;

**private** Ordonnance **ordonnance**;

**private** Chirurgie **chirurgie**;

**private** BigDecimal **rang**;

**public** Ordonnancechirurgie() {

}

*// public Ordonnancechirurgie(OrdonnancechirurgieId id, Ordonnance ordonnance, Chirurgie chirurgie) {*

*// this.id = id;*

*// this.ordonnance = ordonnance;*

*// this.chirurgie = chirurgie;*

*// }*

**public** Ordonnancechirurgie(OrdonnancechirurgieId id, Ordonnance ordonnance, Chirurgie chirurgie, BigDecimal rang) {

**this**.**id** = id;

**this**.**ordonnance** = ordonnance;

**this**.**chirurgie** = chirurgie;

**this**.**rang** = rang;

}

**public** OrdonnancechirurgieId getId() {

**return this**.**id**;

}

**public void** setId(OrdonnancechirurgieId id) {

**this**.**id** = id;

}

**public** Ordonnance getOrdonnance() {

**return this**.**ordonnance**;

}

**public void** setOrdonnance(Ordonnance ordonnance) {

**this**.**ordonnance** = ordonnance;

}

**public** Chirurgie getChirurgie() {

**return this**.**chirurgie**;

}

**public void** setChirurgie(Chirurgie chirurgie) {

**this**.**chirurgie** = chirurgie;

}

**public** BigDecimal getRang() {

**return this**.**rang**;

}

**public void** setRang(BigDecimal rang) {

**this**.**rang** = rang;

}

@Override

**public** String toString() {

**return "Ordonnancechirurgie{"** +

**"id="** + **id** +

**", ordonnance="** + **ordonnance** +

**", chirurgie="** + **chirurgie** +

**", rang="** + **rang** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by Hibernate Tools 4.3.1*

**import** java.math.BigDecimal;

*/\*\**

*\* OrdonnancechirurgieId generated by hbm2java*

*\*/*

**public class** OrdonnancechirurgieId **implements** java.io.Serializable {

**private** BigDecimal **numord**;

**private** BigDecimal **idchir**;

**public** OrdonnancechirurgieId() {

}

**public** OrdonnancechirurgieId(BigDecimal numord, BigDecimal idchir) {

**this**.**numord** = numord;

**this**.**idchir** = idchir;

}

**public** BigDecimal getNumord() {

**return this**.**numord**;

}

**public void** setNumord(BigDecimal numord) {

**this**.**numord** = numord;

}

**public** BigDecimal getIdchir() {

**return this**.**idchir**;

}

**public void** setIdchir(BigDecimal idchir) {

**this**.**idchir** = idchir;

}

**public boolean** equals(Object other) {

**if** ( (**this** == other ) ) **return true**;

**if** ( (other == **null** ) ) **return false**;

**if** ( !(other **instanceof** OrdonnancechirurgieId) ) **return false**;

OrdonnancechirurgieId castOther = ( OrdonnancechirurgieId ) other;

**return** ( (**this**.getNumord()==castOther.getNumord()) || ( **this**.getNumord()!=**null** && castOther.getNumord()!=**null** && **this**.getNumord().equals(castOther.getNumord()) ) )

&& ( (**this**.getIdchir()==castOther.getIdchir()) || ( **this**.getIdchir()!=**null** && castOther.getIdchir()!=**null** && **this**.getIdchir().equals(castOther.getIdchir()) ) );

}

**public int** hashCode() {

**int** result = 17;

result = 37 \* result + ( getNumord() == **null** ? 0 : **this**.getNumord().hashCode() );

result = 37 \* result + ( getIdchir() == **null** ? 0 : **this**.getIdchir().hashCode() );

**return** result;

}

@Override

**public** String toString() {

**return "OrdonnancechirurgieId{"** +

**"numord="** + **numord** +

**", idchir="** + **idchir** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

*/\*\**

*\* Ordonnancemedicaments generated by hbm2java*

*\*/*

**public class** Ordonnancemedicaments **implements** java.io.Serializable {

**private** OrdonnancemedicamentsId **id**;

**private** Ordonnance **ordonnance**;

**private** Medicament **medicament**;

**private** BigDecimal **nbboites**;

**public** Ordonnancemedicaments() {

}

**public** Ordonnancemedicaments(OrdonnancemedicamentsId id, Ordonnance ordonnance, Medicament medicament) {

**this**.**id** = id;

**this**.**ordonnance** = ordonnance;

**this**.**medicament** = medicament;

}

**public** Ordonnancemedicaments(OrdonnancemedicamentsId id, Ordonnance ordonnance, Medicament medicament, BigDecimal nbboites) {

**this**.**id** = id;

**this**.**ordonnance** = ordonnance;

**this**.**medicament** = medicament;

**this**.**nbboites** = nbboites;

}

**public** OrdonnancemedicamentsId getId() {

**return this**.**id**;

}

**public void** setId(OrdonnancemedicamentsId id) {

**this**.**id** = id;

}

**public** Ordonnance getOrdonnance() {

**return this**.**ordonnance**;

}

**public void** setOrdonnance(Ordonnance ordonnance) {

**this**.**ordonnance** = ordonnance;

}

**public** Medicament getMedicament() {

**return this**.**medicament**;

}

**public void** setMedicament(Medicament medicament) {

**this**.**medicament** = medicament;

}

**public** BigDecimal getNbboites() {

**return this**.**nbboites**;

}

**public void** setNbboites(BigDecimal nbboites) {

**this**.**nbboites** = nbboites;

}

@Override

**public** String toString() {

**return "Ordonnancemedicaments{"** +

**"id="** + **id** +

**", ordonnance="** + **ordonnance** +

**", medicament="** + **medicament** +

**", nbboites="** + **nbboites** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

*/\*\**

*\* OrdonnancemedicamentsId generated by hbm2java*

*\*/*

**public class** OrdonnancemedicamentsId **implements** java.io.Serializable {

**private** BigDecimal **numord**;

**private** BigDecimal **idmed**;

**public** OrdonnancemedicamentsId() {

}

**public** OrdonnancemedicamentsId(BigDecimal numord, BigDecimal idmed) {

**this**.**numord** = numord;

**this**.**idmed** = idmed;

}

**public** BigDecimal getNumord() {

**return this**.**numord**;

}

**public void** setNumord(BigDecimal numord) {

**this**.**numord** = numord;

}

**public** BigDecimal getIdmed() {

**return this**.**idmed**;

}

**public void** setIdmed(BigDecimal idmed) {

**this**.**idmed** = idmed;

}

**public boolean** equals(Object other) {

**if** ( (**this** == other ) ) **return true**;

**if** ( (other == **null** ) ) **return false**;

**if** ( !(other **instanceof** OrdonnancemedicamentsId) ) **return false**;

OrdonnancemedicamentsId castOther = ( OrdonnancemedicamentsId ) other;

**return** ( (**this**.getNumord()==castOther.getNumord()) || ( **this**.getNumord()!=**null** && castOther.getNumord()!=**null** && **this**.getNumord().equals(castOther.getNumord()) ) )

&& ( (**this**.getIdmed()==castOther.getIdmed()) || ( **this**.getIdmed()!=**null** && castOther.getIdmed()!=**null** && **this**.getIdmed().equals(castOther.getIdmed()) ) );

}

**public int** hashCode() {

**int** result = 17;

result = 37 \* result + ( getNumord() == **null** ? 0 : **this**.getNumord().hashCode() );

result = 37 \* result + ( getIdmed() == **null** ? 0 : **this**.getIdmed().hashCode() );

**return** result;

}

@Override

**public** String toString() {

**return "OrdonnancemedicamentsId{"** +

**"numord="** + **numord** +

**", idmed="** + **idmed** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Salle generated by hbm2java*

*\*/*

**public class** Salle **implements** java.io.Serializable {

**private** BigDecimal **idsalle**;

**private** String **nom**;

**private** Set **specialisationsalles** = **new** HashSet(0);

**private** Set **chirurgies** = **new** HashSet(0);

**public** Salle() {

}

**public** Salle(BigDecimal idsalle, String nom) {

**this**.**idsalle** = idsalle;

**this**.**nom** = nom;

}

**public** Salle(BigDecimal idsalle, String nom, Set specialisationsalles, Set chirurgies) {

**this**.**idsalle** = idsalle;

**this**.**nom** = nom;

**this**.**specialisationsalles** = specialisationsalles;

**this**.**chirurgies** = chirurgies;

}

**public** BigDecimal getIdsalle() {

**return this**.**idsalle**;

}

**public void** setIdsalle(BigDecimal idsalle) {

**this**.**idsalle** = idsalle;

}

**public** String getNom() {

**return this**.**nom**;

}

**public void** setNom(String nom) {

**this**.**nom** = nom;

}

**public** Set getSpecialisationsalles() {

**return this**.**specialisationsalles**;

}

**public void** setSpecialisationsalles(Set specialisationsalles) {

**this**.**specialisationsalles** = specialisationsalles;

}

**public** Set getChirurgies() {

**return this**.**chirurgies**;

}

**public void** setChirurgies(Set chirurgies) {

**this**.**chirurgies** = chirurgies;

}

@Override

**public** String toString() {

**return "Salle{"** +

**"idsalle="** + **idsalle** +

**", nom='"** + **nom** + **'\''** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.util.Date;

*/\*\**

*\* Specialisationsalle generated by hbm2java*

*\*/*

**public class** Specialisationsalle **implements** java.io.Serializable {

**private** SpecialisationsalleId **id**;

**private** Salle **salle**;

**private** Typechirurgie **typechirurgie**;

**private** Date **datec**;

**public** Specialisationsalle() {

}

*// public Specialisationsalle(SpecialisationsalleId id, Salle salle, Typechirurgie typechirurgie) {*

*// this.id = id;*

*// this.salle = salle;*

*// this.typechirurgie = typechirurgie;*

*// }*

**public** Specialisationsalle(SpecialisationsalleId id, Salle salle, Typechirurgie typechirurgie, Date datec) {

**this**.**id** = id;

**this**.**salle** = salle;

**this**.**typechirurgie** = typechirurgie;

**this**.**datec** = datec;

}

**public** SpecialisationsalleId getId() {

**return this**.**id**;

}

**public void** setId(SpecialisationsalleId id) {

**this**.**id** = id;

}

**public** Salle getSalle() {

**return this**.**salle**;

}

**public void** setSalle(Salle salle) {

**this**.**salle** = salle;

}

**public** Typechirurgie getTypechirurgie() {

**return this**.**typechirurgie**;

}

**public void** setTypechirurgie(Typechirurgie typechirurgie) {

**this**.**typechirurgie** = typechirurgie;

}

**public** Date getDatec() {

**return this**.**datec**;

}

**public void** setDatec(Date datec) {

**this**.**datec** = datec;

}

@Override

**public** String toString() {

**return "Specialisationsalle{"** +

**"id="** + **id** +

**", salle="** + **salle** +

**", typechirurgie="** + **typechirurgie** +

**", datec="** + **datec** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

*/\*\**

*\* SpecialisationsalleId generated by hbm2java*

*\*/*

**public class** SpecialisationsalleId **implements** java.io.Serializable {

**private** BigDecimal **idtype**;

**private** BigDecimal **idsalle**;

**public** SpecialisationsalleId() {

}

**public** SpecialisationsalleId(BigDecimal idtype, BigDecimal idsalle) {

**this**.**idtype** = idtype;

**this**.**idsalle** = idsalle;

}

**public** BigDecimal getIdtype() {

**return this**.**idtype**;

}

**public void** setIdtype(BigDecimal idtype) {

**this**.**idtype** = idtype;

}

**public** BigDecimal getIdsalle() {

**return this**.**idsalle**;

}

**public void** setIdsalle(BigDecimal idsalle) {

**this**.**idsalle** = idsalle;

}

**public boolean** equals(Object other) {

**if** ( (**this** == other ) ) **return true**;

**if** ( (other == **null** ) ) **return false**;

**if** ( !(other **instanceof** SpecialisationsalleId) ) **return false**;

SpecialisationsalleId castOther = ( SpecialisationsalleId ) other;

**return** ( (**this**.getIdtype()==castOther.getIdtype()) || ( **this**.getIdtype()!=**null** && castOther.getIdtype()!=**null** && **this**.getIdtype().equals(castOther.getIdtype()) ) )

&& ( (**this**.getIdsalle()==castOther.getIdsalle()) || ( **this**.getIdsalle()!=**null** && castOther.getIdsalle()!=**null** && **this**.getIdsalle().equals(castOther.getIdsalle()) ) );

}

**public int** hashCode() {

**int** result = 17;

result = 37 \* result + ( getIdtype() == **null** ? 0 : **this**.getIdtype().hashCode() );

result = 37 \* result + ( getIdsalle() == **null** ? 0 : **this**.getIdsalle().hashCode() );

**return** result;

}

@Override

**public** String toString() {

**return "SpecialisationsalleId{"** +

**"idtype="** + **idtype** +

**", idsalle="** + **idsalle** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by tp2Hibernate.HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Specialite generated by hbm2java*

*\*/*

**public class** Specialite **implements** java.io.Serializable {

**private** BigDecimal **code**;

**private** String **titre**;

**private** String **description**;

**private** Set **docteurs** = **new** HashSet(0);

**public** Specialite() {

}

**public** Specialite(BigDecimal code, String titre) {

**this**.**code** = code;

**this**.**titre** = titre;

}

**public** Specialite(BigDecimal code, String titre, String description, Set docteurs) {

**this**.**code** = code;

**this**.**titre** = titre;

**this**.**description** = description;

**this**.**docteurs** = docteurs;

}

**public** BigDecimal getCode() {

**return this**.**code**;

}

**public void** setCode(BigDecimal code) {

**this**.**code** = code;

}

**public** String getTitre() {

**return this**.**titre**;

}

**public void** setTitre(String titre) {

**this**.**titre** = titre;

}

**public** String getDescription() {

**return this**.**description**;

}

**public void** setDescription(String description) {

**this**.**description** = description;

}

**public** Set getDocteurs() {

**return this**.**docteurs**;

}

**public void** setDocteurs(Set docteurs) {

**this**.**docteurs** = docteurs;

}

@Override

**public** String toString() {

**return "Specialite{"** +

**"code="** + **code** +

**", titre='"** + **titre** + **'\''** +

**", description='"** + **description** + **'\''** +

**'}'**;

}

}

**package** tp2Hibernate.entite;

*// Generated Apr 8, 2018 2:33:08 AM by tp2Hibernate.HibernateUtil Tools 4.3.1*

**import** java.math.BigDecimal;

**import** java.util.HashSet;

**import** java.util.Set;

*/\*\**

*\* Typechirurgie generated by hbm2java*

*\*/*

**public class** Typechirurgie **implements** java.io.Serializable {

**private** BigDecimal **idtype**;

**private** String **nom**;

**private** String **description**;

**private** Set **chirurgies** = **new** HashSet(0);

**private** Set **specialisationsalles** = **new** HashSet(0);

**public** Typechirurgie() {

}

**public** Typechirurgie(BigDecimal idtype, String nom) {

**this**.**idtype** = idtype;

**this**.**nom** = nom;

}

**public** Typechirurgie(BigDecimal idtype, String nom, String description, Set chirurgies, Set specialisationsalles) {

**this**.**idtype** = idtype;

**this**.**nom** = nom;

**this**.**description** = description;

**this**.**chirurgies** = chirurgies;

**this**.**specialisationsalles** = specialisationsalles;

}

**public** BigDecimal getIdtype() {

**return this**.**idtype**;

}

**public void** setIdtype(BigDecimal idtype) {

**this**.**idtype** = idtype;

}

**public** String getNom() {

**return this**.**nom**;

}

**public void** setNom(String nom) {

**this**.**nom** = nom;

}

**public** String getDescription() {

**return this**.**description**;

}

**public void** setDescription(String description) {

**this**.**description** = description;

}

**public** Set getChirurgies() {

**return this**.**chirurgies**;

}

**public void** setChirurgies(Set chirurgies) {

**this**.**chirurgies** = chirurgies;

}

**public** Set getSpecialisationsalles() {

**return this**.**specialisationsalles**;

}

**public void** setSpecialisationsalles(Set specialisationsalles) {

**this**.**specialisationsalles** = specialisationsalles;

}

@Override

**public** String toString() {

**return "Typechirurgie{"** +

**"idtype="** + **idtype** +

**", nom='"** + **nom** + **'\''** +

**", description='"** + **description** + **'\''** +

**'}'**;

}

}