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*Développement d’applications de base de données*  
420-5B6-JR gr. 101

Hymperia : Diagramme de Base de Données

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# Diagramme de tables

# Scripts d’insertion

## Déploiement : deploy.sql

SET SQL\_MODE = "NO\_AUTO\_VALUE\_ON\_ZERO";

SET time\_zone = "+00:00";

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

/\*!40101 SET NAMES utf8 \*/;

CREATE DATABASE IF NOT EXISTS hymperia DEFAULT CHARACTER SET latin1 COLLATE latin1\_swedish\_ci;

USE hymperia;

SOURCE 'creation.sql';

SOURCE 'insertion.sql';

DROP TABLE IF EXISTS \_\_efmigrationshistory;

CREATE TABLE IF NOT EXISTS \_\_efmigrationshistory (

MigrationId VARCHAR(95) NOT NULL,

ProductVersion VARCHAR(32) NOT NULL,

PRIMARY KEY (MigrationId)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

INSERT INTO \_\_efmigrationshistory VALUES

('20180926161335\_InitialDatabase', '2.2.0-preview1-35029');

/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

## Création : creation.sql

DROP TABLE IF EXISTS Acces;

DROP TABLE IF EXISTS Formes;

DROP TABLE IF EXISTS Projets;

DROP TABLE IF EXISTS Materiaux;

DROP TABLE IF EXISTS Utilisateurs;

CREATE TABLE IF NOT EXISTS Utilisateurs (

Id INT(11) NOT NULL AUTO\_INCREMENT,

Nom VARCHAR(255) NOT NULL,

MotDePasse LONGTEXT NOT NULL,

PRIMARY KEY (Id),

UNIQUE KEY AK\_Utilisateurs\_Nom (Nom)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=4 ;

CREATE TABLE IF NOT EXISTS Materiaux (

Id INT(11) NOT NULL AUTO\_INCREMENT,

Nom VARCHAR(255) NOT NULL,

Prix DOUBLE NOT NULL,

PRIMARY KEY (`Id`),

UNIQUE KEY `AK\_Materiaux\_Nom` (`Nom`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=3 ;

CREATE TABLE IF NOT EXISTS Projets (

Id INT(11) NOT NULL AUTO\_INCREMENT,

Nom VARCHAR(255) NOT NULL,

PRIMARY KEY (Id),

UNIQUE KEY AK\_Projets\_Nom (Nom)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=4 ;

CREATE TABLE IF NOT EXISTS Formes (

Id INT(11) NOT NULL AUTO\_INCREMENT,

IdMateriau INT(11) NOT NULL,

Origine LONGTEXT NOT NULL,

Discriminator LONGTEXT NOT NULL,

IdProjet INT(11) DEFAULT NULL,

RayonX DOUBLE DEFAULT NULL,

RayonY DOUBLE DEFAULT NULL,

RayonZ DOUBLE DEFAULT NULL,

PhiDiv INT(11) DEFAULT NULL,

ThetaDiv INT(11) DEFAULT NULL,

PrismeRectangulaire\_Hauteur DOUBLE DEFAULT NULL,

Largeur DOUBLE DEFAULT NULL,

Longueur DOUBLE DEFAULT NULL,

ThetaDivForme\_ThetaDiv INT(11) DEFAULT NULL,

Hauteur DOUBLE DEFAULT NULL,

RayonBase DOUBLE DEFAULT NULL,

RayonTop DOUBLE DEFAULT NULL,

Point LONGTEXT,

Diametre DOUBLE DEFAULT NULL,

InnerDiametre DOUBLE DEFAULT NULL,

PRIMARY KEY (Id),

KEY IX\_Formes\_IdMateriau (IdMateriau),

KEY IX\_Formes\_IdProjet (IdProjet)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=94 ;

ALTER TABLE Formes

ADD CONSTRAINT FK\_Formes\_Materiaux\_MateriauId FOREIGN KEY (MateriauId) REFERENCES Materiaux (Id) ON DELETE CASCADE,

ADD CONSTRAINT FK\_Formes\_Projets\_ProjetId FOREIGN KEY (ProjetId) REFERENCES Projets (Id) ON DELETE NO ACTION;

CREATE TABLE IF NOT EXISTS Acces(

IdProjet INT(11) NOT NULL,

IdUtilisateur INT(11) NOT NULL,

DroitDAcces LONGTEXT NOT NULL,

PRIMARY KEY (IdProjet, idUtilisateur),

KEY IX\_Acces\_IdUtilisateur (IdUtilisateur)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE Acces

ADD CONSTRAINT FK\_Acces\_Projets\_idProjet FOREIGN KEY (IdProjet) REFERENCES Projets (Id) ON DELETE CASCADE,

ADD CONSTRAINT FK\_Acces\_Utilisateurs\_idUtilisateur FOREIGN KEY (IdUtilisateur) REFERENCES Utilisateurs (Id) ON DELETE CASCADE;

## Insertion : insertion.sql

INSERT INTO Utilisateurs VALUES

(1, 'Alexandre', '$2y$15$eiI786bZMg0HrJP4BphbveEXb1UHmkkd5p8feoUpDqYwuvgHjik2q'),

(2, 'Guillaume', '$2y$15$eiI786bZMg0HrJP4BphbveEXb1UHmkkd5p8feoUpDqYwuvgHjik2q'),

(3, 'Antoine', '$2y$15$eiI786bZMg0HrJP4BphbveEXb1UHmkkd5p8feoUpDqYwuvgHjik2q');

INSERT INTO Materiaux VALUES

(1, 'Bois', 1.55),

(2, 'Acier', 2.55);

INSERT INTO Projets VALUES

(1, 'Projet 1'),

(2, 'Projet 2'),

(3, 'Projet 3');

INSERT INTO Formes VALUES

(1, 1, '{"X":27.0,"Y":54.0,"Z":13.0}', 'Ellipsoide', 1, 13, 12, 14, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(2, 1, '{"X":60.0,"Y":5.0,"Z":57.0}', 'Ellipsoide', 3, 5, 4, 5, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(3, 1, '{"X":24.0,"Y":64.0,"Z":30.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 11, 5, 0, NULL, NULL, NULL),

(4, 2, '{"X":24.0,"Y":23.0,"Z":14.0}', 'Ellipsoide', 3, 14, 1, 13, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(5, 1, '{"X":25.0,"Y":22.0,"Z":95.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 14, 11, 14, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(6, 2, '{"X":83.0,"Y":78.0,"Z":5.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":24.0,"Y":97.0,"Z":97.0}', 8, 0),

(7, 1, '{"X":10.0,"Y":51.0,"Z":89.0}', 'Ellipsoide', 2, 7, 9, 6, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(8, 1, '{"X":19.0,"Y":30.0,"Z":43.0}', 'Ellipsoide', 2, 11, 4, 1, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(9, 2, '{"X":88.0,"Y":76.0,"Z":35.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 13, 5, 6, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(10, 2, '{"X":28.0,"Y":93.0,"Z":25.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":46.0,"Y":34.0,"Z":16.0}', 3, 0),

(11, 2, '{"X":7.0,"Y":29.0,"Z":81.0}', 'Ellipsoide', 2, 3, 7, 8, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(12, 1, '{"X":31.0,"Y":71.0,"Z":82.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":33.0,"Y":20.0,"Z":14.0}', 14, 0),

(13, 2, '{"X":83.0,"Y":12.0,"Z":33.0}', 'Ellipsoide', 2, 9, 2, 14, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(14, 1, '{"X":20.0,"Y":33.0,"Z":42.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 14, 9, 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(15, 1, '{"X":42.0,"Y":34.0,"Z":98.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":74.0,"Y":51.0,"Z":1.0}', 4, 0),

(16, 2, '{"X":33.0,"Y":74.0,"Z":39.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":52.0,"Y":79.0,"Z":72.0}', 13, 0),

(17, 2, '{"X":95.0,"Y":96.0,"Z":55.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":83.0,"Y":84.0,"Z":75.0}', 2, 0),

(18, 2, '{"X":87.0,"Y":87.0,"Z":0.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 6, 8, 0, NULL, NULL, NULL),

(19, 1, '{"X":8.0,"Y":34.0,"Z":65.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 7, 4, 0, NULL, NULL, NULL),

(20, 2, '{"X":9.0,"Y":79.0,"Z":80.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 10, 3, 6, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(21, 1, '{"X":95.0,"Y":46.0,"Z":7.0}', 'Ellipsoide', 2, 3, 7, 5, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(22, 2, '{"X":85.0,"Y":89.0,"Z":25.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":46.0,"Y":6.0,"Z":8.0}', 3, 0),

(23, 2, '{"X":32.0,"Y":68.0,"Z":83.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 4, 9, 9, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(24, 2, '{"X":4.0,"Y":13.0,"Z":3.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 5, 12, 4, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(25, 2, '{"X":81.0,"Y":65.0,"Z":3.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 12, 2, 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(26, 2, '{"X":96.0,"Y":15.0,"Z":70.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 3, 5, 9, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(27, 2, '{"X":18.0,"Y":33.0,"Z":62.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 11, 13, 0, NULL, NULL, NULL),

(28, 1, '{"X":88.0,"Y":75.0,"Z":4.0}', 'Ellipsoide', 3, 5, 14, 3, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(29, 1, '{"X":16.0,"Y":4.0,"Z":54.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 2, 3, 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(30, 1, '{"X":88.0,"Y":83.0,"Z":71.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 9, 9, 5, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(31, 1, '{"X":88.0,"Y":70.0,"Z":34.0}', 'Ellipsoide', 3, 12, 13, 4, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(32, 2, '{"X":53.0,"Y":36.0,"Z":79.0}', 'Ellipsoide', 3, 3, 10, 6, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(33, 2, '{"X":9.0,"Y":8.0,"Z":94.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 12, 8, 0, NULL, NULL, NULL),

(34, 2, '{"X":98.0,"Y":39.0,"Z":15.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 13, 14, 0, NULL, NULL, NULL),

(35, 1, '{"X":47.0,"Y":58.0,"Z":80.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 6, 1, 5, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(36, 1, '{"X":84.0,"Y":51.0,"Z":23.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 4, 14, 9, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(37, 1, '{"X":69.0,"Y":27.0,"Z":62.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 11, 4, 0, NULL, NULL, NULL),

(38, 2, '{"X":28.0,"Y":57.0,"Z":96.0}', 'Cylindre', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":33.0,"Y":86.0,"Z":94.0}', 8, 0),

(39, 1, '{"X":63.0,"Y":3.0,"Z":29.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 8, 13, 9, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(40, 1, '{"X":58.0,"Y":39.0,"Z":44.0}', 'Ellipsoide', 2, 12, 4, 11, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(41, 2, '{"X":3.0,"Y":62.0,"Z":84.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 14, 4, 11, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(42, 2, '{"X":65.0,"Y":85.0,"Z":44.0}', 'Ellipsoide', 3, 7, 5, 12, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(43, 2, '{"X":4.0,"Y":99.0,"Z":34.0}', 'Cylindre', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":27.0,"Y":90.0,"Z":79.0}', 8, 0),

(44, 1, '{"X":96.0,"Y":20.0,"Z":0.0}', 'Cylindre', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":53.0,"Y":51.0,"Z":22.0}', 14, 0),

(45, 2, '{"X":63.0,"Y":82.0,"Z":5.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 12, 14, 0, NULL, NULL, NULL),

(46, 1, '{"X":22.0,"Y":35.0,"Z":73.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 5, 7, 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(47, 2, '{"X":13.0,"Y":54.0,"Z":42.0}', 'Cylindre', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":59.0,"Y":4.0,"Z":96.0}', 12, 0),

(48, 2, '{"X":34.0,"Y":5.0,"Z":12.0}', 'PrismeRectangulaire', 3, NULL, NULL, NULL, NULL, NULL, 2, 13, 4, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(49, 2, '{"X":50.0,"Y":27.0,"Z":14.0}', 'Ellipsoide', 3, 1, 2, 12, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(50, 2, '{"X":99.0,"Y":20.0,"Z":80.0}', 'Ellipsoide', 3, 2, 13, 10, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(51, 1, '{"X":13.0,"Y":85.0,"Z":34.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 9, 9, 0, NULL, NULL, NULL),

(52, 1, '{"X":58.0,"Y":1.0,"Z":48.0}', 'Cylindre', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":33.0,"Y":33.0,"Z":99.0}', 1, 0),

(53, 1, '{"X":60.0,"Y":23.0,"Z":44.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 7, 13, 0, NULL, NULL, NULL),

(54, 1, '{"X":5.0,"Y":34.0,"Z":87.0}', 'Ellipsoide', 2, 10, 5, 5, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(55, 1, '{"X":59.0,"Y":84.0,"Z":92.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":95.0,"Y":83.0,"Z":93.0}', 11, 0),

(56, 2, '{"X":77.0,"Y":92.0,"Z":42.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 1, 7, 0, NULL, NULL, NULL),

(57, 2, '{"X":96.0,"Y":19.0,"Z":18.0}', 'Cylindre', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":8.0,"Y":62.0,"Z":15.0}', 3, 0),

(58, 2, '{"X":46.0,"Y":54.0,"Z":39.0}', 'Cylindre', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":89.0,"Y":42.0,"Z":13.0}', 1, 0),

(59, 1, '{"X":3.0,"Y":90.0,"Z":25.0}', 'Ellipsoide', 1, 13, 8, 5, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(60, 1, '{"X":17.0,"Y":6.0,"Z":32.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 7, 5, 0, NULL, NULL, NULL),

(61, 2, '{"X":64.0,"Y":86.0,"Z":63.0}', 'PrismeRectangulaire', 1, NULL, NULL, NULL, NULL, NULL, 11, 10, 10, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(62, 2, '{"X":53.0,"Y":2.0,"Z":40.0}', 'Ellipsoide', 1, 12, 9, 1, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(63, 2, '{"X":51.0,"Y":52.0,"Z":32.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 6, 1, 0, NULL, NULL, NULL),

(64, 1, '{"X":91.0,"Y":82.0,"Z":94.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 4, 14, 0, NULL, NULL, NULL),

(65, 2, '{"X":16.0,"Y":43.0,"Z":44.0}', 'Ellipsoide', 1, 8, 12, 3, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(66, 1, '{"X":75.0,"Y":7.0,"Z":85.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 14, 5, 0, NULL, NULL, NULL),

(67, 1, '{"X":24.0,"Y":65.0,"Z":25.0}', 'PrismeRectangulaire', 1, NULL, NULL, NULL, NULL, NULL, 2, 4, 4, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(68, 2, '{"X":47.0,"Y":15.0,"Z":35.0}', 'PrismeRectangulaire', 1, NULL, NULL, NULL, NULL, NULL, 10, 14, 6, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(69, 2, '{"X":18.0,"Y":11.0,"Z":77.0}', 'Cylindre', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":82.0,"Y":14.0,"Z":28.0}', 9, 0),

(70, 2, '{"X":97.0,"Y":79.0,"Z":11.0}', 'Cylindre', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":34.0,"Y":67.0,"Z":25.0}', 2, 0),

(71, 2, '{"X":51.0,"Y":49.0,"Z":46.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 2, 6, 0, NULL, NULL, NULL),

(72, 2, '{"X":7.0,"Y":18.0,"Z":5.0}', 'PrismeRectangulaire', 1, NULL, NULL, NULL, NULL, NULL, 11, 4, 8, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(73, 2, '{"X":55.0,"Y":73.0,"Z":73.0}', 'Ellipsoide', 1, 13, 14, 5, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(74, 2, '{"X":17.0,"Y":93.0,"Z":17.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 11, 8, 0, NULL, NULL, NULL),

(75, 1, '{"X":85.0,"Y":85.0,"Z":1.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 3, 1, 0, NULL, NULL, NULL),

(76, 2, '{"X":33.0,"Y":22.0,"Z":45.0}', 'PrismeRectangulaire', 1, NULL, NULL, NULL, NULL, NULL, 8, 3, 8, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(77, 1, '{"X":81.0,"Y":93.0,"Z":88.0}', 'Cylindre', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":85.0,"Y":19.0,"Z":26.0}', 11, 0),

(78, 1, '{"X":69.0,"Y":4.0,"Z":44.0}', 'Ellipsoide', 1, 5, 4, 8, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(79, 1, '{"X":95.0,"Y":22.0,"Z":41.0}', 'Cone', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 8, 11, 0, NULL, NULL, NULL),

(80, 2, '{"X":12.0,"Y":39.0,"Z":91.0}', 'Cylindre', 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":68.0,"Y":91.0,"Z":22.0}', 13, 0),

(81, 2, '{"X":28.0,"Y":68.0,"Z":66.0}', 'PrismeRectangulaire', 1, NULL, NULL, NULL, NULL, NULL, 11, 11, 5, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(82, 2, '{"X":70.0,"Y":91.0,"Z":4.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 7, 9, 0, NULL, NULL, NULL),

(83, 2, '{"X":37.0,"Y":92.0,"Z":38.0}', 'Ellipsoide', 1, 2, 10, 6, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(84, 2, '{"X":42.0,"Y":47.0,"Z":15.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 1, 4, 6, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(85, 1, '{"X":29.0,"Y":32.0,"Z":10.0}', 'Ellipsoide', 2, 5, 12, 14, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(86, 2, '{"X":43.0,"Y":61.0,"Z":28.0}', 'Ellipsoide', 2, 10, 3, 8, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(87, 2, '{"X":80.0,"Y":80.0,"Z":64.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 12, 4, 4, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(88, 2, '{"X":59.0,"Y":4.0,"Z":1.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":85.0,"Y":73.0,"Z":17.0}', 5, 0),

(89, 2, '{"X":54.0,"Y":71.0,"Z":42.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":33.0,"Y":4.0,"Z":30.0}', 4, 0),

(90, 1, '{"X":37.0,"Y":45.0,"Z":95.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 13, 12, 11, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(91, 1, '{"X":3.0,"Y":14.0,"Z":76.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 8, 7, 0, NULL, NULL, NULL),

(92, 2, '{"X":32.0,"Y":6.0,"Z":3.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":83.0,"Y":3.0,"Z":53.0}', 10, 0),

(93, 2, '{"X":34.0,"Y":3.0,"Z":80.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 1, 4, 0, NULL, NULL, NULL),

(94, 1, '{"X":88.0,"Y":71.0,"Z":76.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":4.0,"Y":83.0,"Z":78.0}', 9, 0),

(95, 1, '{"X":86.0,"Y":58.0,"Z":59.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 6, 2, 13, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(96, 1, '{"X":23.0,"Y":26.0,"Z":81.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 6, 13, 0, NULL, NULL, NULL),

(97, 2, '{"X":48.0,"Y":36.0,"Z":11.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":46.0,"Y":10.0,"Z":68.0}', 2, 0),

(98, 2, '{"X":32.0,"Y":92.0,"Z":35.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":38.0,"Y":1.0,"Z":34.0}', 2, 0),

(99, 2, '{"X":8.0,"Y":24.0,"Z":59.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":11.0,"Y":54.0,"Z":39.0}', 14, 0),

(100, 1, '{"X":22.0,"Y":79.0,"Z":92.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":86.0,"Y":50.0,"Z":50.0}', 4, 0),

(101, 1, '{"X":63.0,"Y":29.0,"Z":51.0}', 'PrismeRectangulaire', 2, NULL, NULL, NULL, NULL, NULL, 11, 8, 1, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(102, 2, '{"X":18.0,"Y":34.0,"Z":85.0}', 'Ellipsoide', 2, 2, 14, 12, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(103, 1, '{"X":67.0,"Y":29.0,"Z":19.0}', 'Ellipsoide', 2, 10, 3, 1, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(104, 2, '{"X":17.0,"Y":30.0,"Z":30.0}', 'Ellipsoide', 2, 12, 8, 7, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(105, 2, '{"X":99.0,"Y":84.0,"Z":25.0}', 'Ellipsoide', 2, 8, 4, 4, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(106, 2, '{"X":20.0,"Y":13.0,"Z":45.0}', 'Ellipsoide', 2, 13, 13, 5, 0, 0, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL),

(107, 2, '{"X":70.0,"Y":75.0,"Z":10.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 3, 12, 0, NULL, NULL, NULL),

(108, 1, '{"X":79.0,"Y":88.0,"Z":85.0}', 'Cylindre', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, NULL, NULL, NULL, '{"X":51.0,"Y":55.0,"Z":78.0}', 8, 0),

(109, 1, '{"X":23.0,"Y":94.0,"Z":67.0}', 'Cone', 2, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 12, 9, 0, NULL, NULL, NULL),

(110, 2, '{"X":61.0,"Y":26.0,"Z":63.0}', 'Cone', 3, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 60, 8, 7, 0, NULL, NULL, NULL);

INSERT INTO Acces VALUES

(1, 1, 'Possession'),

(1, 2, 'Lecture'),

(2, 1, 'LectureEcriture'),

(2, 2, 'Possession'),

(2, 3, 'LectureEcriture'),

(3, 1, 'LectureEcriture'),

(3, 2, 'LectureEcriture'),

(3, 3, 'Possession');