



1° DAM

Práctica

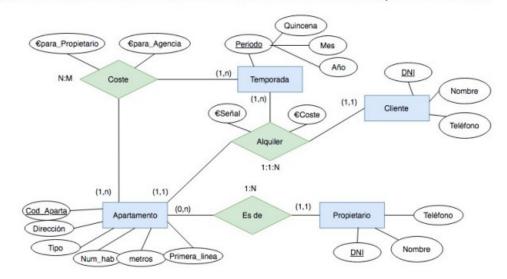
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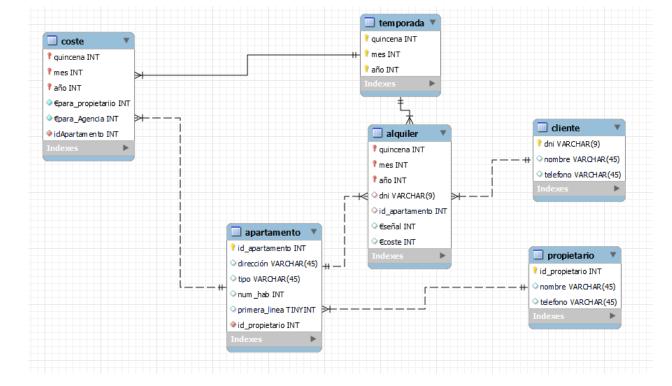
Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello

Tarea 1: (3 puntos)

Dado el esquema E/R de la figura correspondiente a la base de datos de una agencia de alquiler de apartamentos en la playa para vacaciones. Se pide transformarlo al modelo relacional mediante la herramienta MySQL Workbench.









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Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello

-- MySQL Workbench Forward Engineering SET @OLD UNIQUE CHECKS=@@UNIQUE CHECKS, UNIQUE CHECKS=0; @OLD FOREIGN KEY CHECKS=@@FOREIGN KEY CHECKS, **SET** FOREIGN KEY CHECKS=0; @OLD SQL MODE=@@SQL MODE, **SET** SQL MODE='ONLY FULL GROUP BY, STRICT TRANS TABLES, NO ZERO IN DATE ,NO ZERO DATE,ERROR FOR DIVISION BY ZERO,NO ENGINE SUBSTITUTION'; -- Schema T4P2.1 -- Schema T4P2.1 CREATE SCHEMA IF NOT EXISTS 'T4P2.1' DEFAULT CHARACTER SET utf8; USE 'T4P2.1'; -- Table `T4P2.1`.`cliente` CREATE TABLE IF NOT EXISTS 'T4P2.1'.'cliente' ('dni' VARCHAR(9) NOT NULL, 'nombre' VARCHAR(45) NULL, 'telefono' VARCHAR(45) NULL, PRIMARY KEY ('dni')) ENGINE = InnoDB; -- Table 'T4P2.1'. 'propietario' -- -----CREATE TABLE IF NOT EXISTS 'T4P2.1'. 'propietario' ('id propietario' INT NOT NULL AUTO INCREMENT, 'nombre' VARCHAR(45) NULL, 'telefono' VARCHAR(45) NULL, PRIMARY KEY ('id propietario')) ENGINE = InnoDB;-- Table `T4P2.1`.`apartamento`

CREATE TABLE IF NOT EXISTS `T4P2.1`.`apartamento` (`id apartamento` INT NOT NULL AUTO INCREMENT,

'dirección' VARCHAR(45) NULL,

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Bases de datos



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Tema 4 – Modelo Relacional

'tipo' VARCHAR(45) NULL,

NOMBRE: Alonso Marrero Bello 'num hab' INT NULL, 'primera linea' TINYINT NULL, 'id propietario' INT NOT NULL, PRIMARY KEY ('id apartamento'), INDEX 'id propietario' ('id propietario' ASC) VISIBLE, CONSTRAINT 'propietarioApartamento' FOREIGN KEY ('id propietario') REFERENCES 'T4P2.1'.'propietario' ('id propietario') ON DELETE RESTRICT ON UPDATE CASCADE) ENGINE = InnoDB;-- Table 'T4P2.1'.'temporada' CREATE TABLE IF NOT EXISTS 'T4P2.1'. 'temporada' ('quincena' INT NOT NULL, 'mes' INT NOT NULL, `año` INT NOT NULL, PRIMARY KEY ('quincena', 'mes', 'año')) ENGINE = InnoDB;-- Table `T4P2.1`.`coste` CREATE TABLE IF NOT EXISTS 'T4P2.1'.'coste' ('quincena' INT NOT NULL, 'mes' INT NOT NULL, `año` INT NOT NULL,

`€para propietariio` INT NOT NULL,

`€para Agencia` INT NOT NULL,

'idApartamento' INT NOT NULL,

PRIMARY KEY ('quincena', 'mes', 'año'),

INDEX 'quincena' ('quincena' ASC) INVISIBLE,

INDEX 'mes' ('mes' ASC) INVISIBLE,

INDEX 'año' ('año' ASC) INVISIBLE,

INDEX 'id apartamento' ('idApartamento' ASC) VISIBLE,

CONSTRAINT 'costeTemporada'

FOREIGN KEY ('quincena', 'mes', 'año')

REFERENCES 'T4P2.1'.'temporada' ('quincena', 'mes', 'año')

ON DELETE RESTRICT

ON UPDATE CASCADE,

CONSTRAINT 'costeApartamento'

FOREIGN KEY ('idApartamento')

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Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello

```
REFERENCES 'T4P2.1'.'apartamento' ('id apartamento')
  ON DELETE RESTRICT
  ON UPDATE CASCADE)
ENGINE = InnoDB;
-- Table `T4P2.1`.`alquiler`
CREATE TABLE IF NOT EXISTS 'T4P2.1'. 'alquiler' (
 'quincena' INT NOT NULL,
 'mes' INT NOT NULL,
 'año' INT NOT NULL,
 'dni' VARCHAR(9) NULL,
 'id apartamento' INT NULL,
 `€señal` INT NULL,
 '€coste' INT NULL,
 PRIMARY KEY ('quincena', 'mes', 'año'),
 INDEX 'quincena' ('quincena' ASC) INVISIBLE,
 INDEX 'mes' ('mes' ASC) INVISIBLE,
 INDEX 'año' ('año' ASC) INVISIBLE,
 INDEX 'dni' ('dni' ASC) INVISIBLE,
 INDEX 'id apartamento' ('id apartamento' ASC) VISIBLE,
 CONSTRAINT 'alquilerTemporada'
  FOREIGN KEY ('quincena', 'mes', 'año')
  REFERENCES 'T4P2.1'.'temporada' ('quincena', 'mes', 'año')
  ON DELETE RESTRICT
  ON UPDATE CASCADE,
 CONSTRAINT 'alquilerCliente'
  FOREIGN KEY ('dni')
  REFERENCES 'T4P2.1'.'cliente' ('dni')
  ON DELETE RESTRICT
  ON UPDATE CASCADE,
 CONSTRAINT 'alquilerApartamento'
  FOREIGN KEY ('id apartamento')
  REFERENCES 'T4P2.1'.'apartamento' ('id_apartamento')
  ON DELETE RESTRICT
  ON UPDATE CASCADE)
ENGINE = InnoDB;
```

SET SQL_MODE=@OLD_SQL_MODE; SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS; SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;





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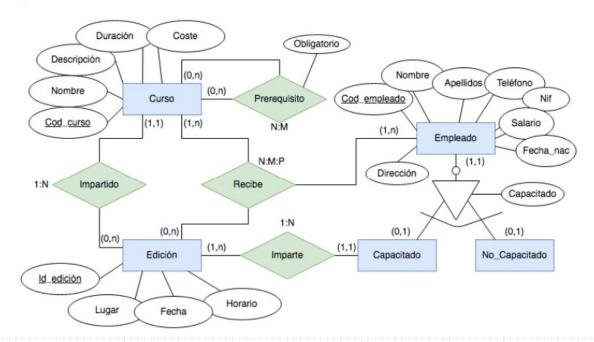
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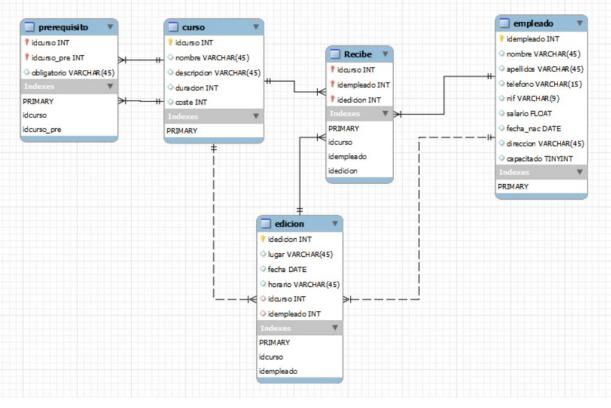
Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello

Taea 2: (3 puntos)

Dado el esquema E/R de la figura correspondiente a la base de datos sobre proveedores. Se pide transformarlo al modelo relacional mediante la herramienta MySQL Workbench.





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Tema 4 – Modelo Relacional

NOMBRE: Alonso Marrero Bello

-- MySQL Workbench Forward Engineering SET @OLD UNIQUE CHECKS=@@UNIQUE CHECKS, UNIQUE CHECKS=0; @OLD FOREIGN KEY CHECKS=@@FOREIGN KEY CHECKS, **SET** FOREIGN KEY CHECKS=0; @OLD SQL MODE=@@SQL MODE, **SET** SQL MODE='ONLY FULL GROUP BY, STRICT TRANS TABLES, NO ZERO IN DATE ,NO ZERO DATE,ERROR FOR DIVISION BY ZERO,NO ENGINE SUBSTITUTION'; -- Schema T4P2.2

-- Schema T4P2.2

CREATE SCHEMA IF NOT EXISTS 'T4P2.2' DEFAULT CHARACTER SET utf8; USE 'T4P2.2';

-- Table `T4P2.2`.`curso`

CREATE TABLE IF NOT EXISTS 'T4P2.2'.'curso' (

'idcurso' INT UNSIGNED NOT NULL AUTO INCREMENT,

'nombre' VARCHAR(45) NULL,

'descripcion' VARCHAR(45) NULL,

'duracion' INT UNSIGNED NULL,

'coste' INT UNSIGNED NULL,

PRIMARY KEY ('idcurso'))

ENGINE = InnoDB;

-- Table `T4P2.2`.`empleado`

CREATE TABLE IF NOT EXISTS 'T4P2.2'.'empleado' (

'idempleado' INT UNSIGNED NOT NULL,

'nombre' VARCHAR(45) NULL,

'apellidos' VARCHAR(45) NULL,

'telefono' VARCHAR(15) NULL,

'nif' VARCHAR(9) NULL,

'salario' FLOAT NULL,

'fecha nac' DATE NULL,

'direccion' VARCHAR(45) NULL,

'capacitado' TINYINT NULL,

PRIMARY KEY ('idempleado'))

ENGINE = InnoDB;

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Tema 4 – Modelo Relacional

NOMBRE: Alonso Marrero Bello

-- Table `T4P2.2`.`edicion` CREATE TABLE IF NOT EXISTS 'T4P2.2'. 'edicion' ('idedicion' INT UNSIGNED NOT NULL AUTO INCREMENT, 'lugar' VARCHAR(45) NULL, 'fecha' DATE NULL, 'horario' VARCHAR(45) NULL, 'idcurso' INT UNSIGNED NULL, 'idempleado' INT UNSIGNED NULL, PRIMARY KEY ('idedicion'), INDEX 'idcurso' ('idcurso' ASC) VISIBLE, INDEX 'idempleado' ('idempleado' ASC) VISIBLE, CONSTRAINT 'edicionCurso' FOREIGN KEY ('idcurso') REFERENCES 'T4P2.2'.'curso' ('idcurso') ON DELETE RESTRICT ON UPDATE CASCADE, CONSTRAINT 'edicionEmpleado' FOREIGN KEY ('idempleado') REFERENCES 'T4P2.2'.'empleado' ('idempleado') ON DELETE NO ACTION ON UPDATE NO ACTION) ENGINE = InnoDB;-- Table `T4P2.2`.`prerequisito` CREATE TABLE IF NOT EXISTS 'T4P2.2'. 'prerequisito' ('idcurso' INT UNSIGNED NOT NULL, 'idcurso pre' INT UNSIGNED NOT NULL, 'obligatorio' VARCHAR(45) NULL, PRIMARY KEY ('idcurso', 'idcurso_pre'), INDEX 'ideurso' ('ideurso' ASC) INVISIBLE, INDEX 'idcurso pre' ('idcurso pre' ASC) VISIBLE, CONSTRAINT 'prerequisitoCurso' FOREIGN KEY ('idcurso') REFERENCES 'T4P2.2'.'curso' ('idcurso') ON DELETE RESTRICT ON UPDATE CASCADE, CONSTRAINT 'prerequisitoCursoRef' FOREIGN KEY ('idcurso pre') REFERENCES 'T4P2.2'.'curso' ('idcurso') ON DELETE RESTRICT

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Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello

ON UPDATE CASCADE) ENGINE = InnoDB;

-- Table 'T4P2.2'.'Recibe'

-- -----

CREATE TABLE IF NOT EXISTS 'T4P2.2'. 'Recibe' (

'idcurso' INT UNSIGNED NOT NULL,

'idempleado' INT UNSIGNED NOT NULL,

'idedicion' INT UNSIGNED NOT NULL,

PRIMARY KEY ('idcurso', 'idempleado', 'idedicion'),

INDEX 'idcurso' ('idcurso' ASC) INVISIBLE,

INDEX 'idempleado' ('idempleado' ASC) INVISIBLE,

INDEX 'idedicion' ('idedicion' ASC) VISIBLE,

CONSTRAINT 'recibeCurso'

FOREIGN KEY ('idcurso')

REFERENCES 'T4P2.2'.'curso' ('idcurso')

ON DELETE RESTRICT

ON UPDATE CASCADE,

CONSTRAINT 'recibeEmpleado'

FOREIGN KEY ('idempleado')

REFERENCES 'T4P2.2'.'empleado' ('idempleado')

ON DELETE RESTRICT

ON UPDATE CASCADE,

CONSTRAINT 'recibeEdicion'

FOREIGN KEY ('idedicion')

REFERENCES 'T4P2.2'.'edicion' ('idedicion')

ON DELETE RESTRICT

ON UPDATE CASCADE)

ENGINE = InnoDB;

SET SQL MODE=@OLD SQL MODE;

SET FOREIGN KEY CHECKS=@OLD FOREIGN KEY CHECKS;

SET UNIQUE CHECKS=@OLD UNIQUE CHECKS;





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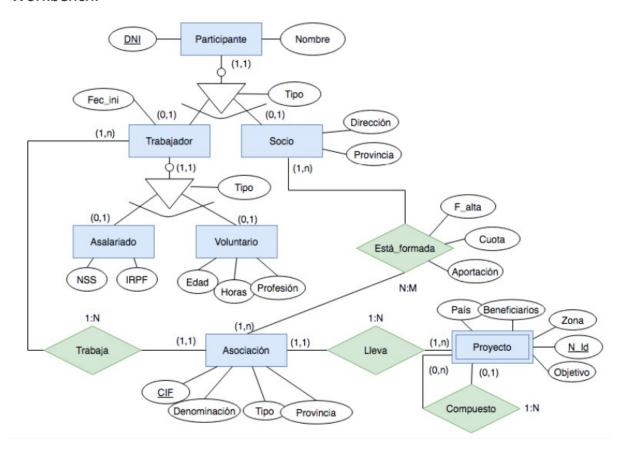
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Tema 4 – Modelo Relacional

NOMBRE: Alonso Marrero Bello

Tarea 3: (4 puntos)

Dado el esquema E/R de la figura, se pide transformarlo al modelo relacional, para la creación de las estructuras de las tablas deberás usar la herramienta MySQL Workbench.



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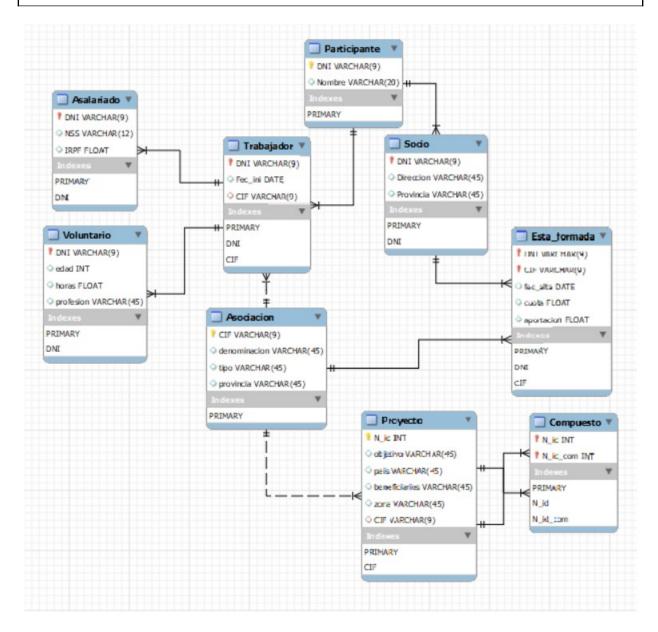
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Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello



-- MySQL Workbench Forward Engineering

SET @OLD UNIQUE	CHECKS=@@UNIQUE	E CHECKS, UNIO	QUE CHECKS=0	;
SET	@OLD_FOREIGN_KE	Y_CHECKS=@@	DFOREIGN_KEY	CHECKS,
FOREIGN_KEY_CHE	CKS=0;	_		_
SET		@OLD_SQ	L_MODE=@@SO	QL_MODE,
SQL_MODE='ONLY_1	FULL_GROUP_BY,STRI	ICT_TRANS_TA	BLES,NO_ZERO	_IN_DATE
,NO_ZERO_DATE,ER	ROR_FOR_DIVISION_B	BY_ZERO,NO_E	NGINE_SUBSTIT	`UTION';
Schema T4P2.3				
Schema T4P2.3				

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Tema 4 – Modelo Relacional

NOMBRE: Alonso Marrero Bello

Schema 14P2.3	
CREATE SCHEMA IF NOT EXISTS `T4P2.3 USE `T4P2.3` ;	O DEFAULT CHARACTER SET utf8;
Table `T4P2.3`.`Participante`	
CREATE TABLE IF NOT EXISTS `T4P2.3`.` `DNI` VARCHAR(9) NOT NULL, `Nombre` VARCHAR(20) NULL, PRIMARY KEY (`DNI`)) ENGINE = InnoDB;	Participante` (
Table `T4P2.3`.`Asociacion`	
CREATE TABLE IF NOT EXISTS `T4P2.3`.` `CIF` VARCHAR(9) NOT NULL, `denominacion` VARCHAR(45) NULL, `tipo` VARCHAR(45) NULL, `provincia` VARCHAR(45) NULL, PRIMARY KEY ('CIF')) ENGINE = InnoDB;	Asociacion` (
Table `T4P2.3`.`Trabajador`	
CREATE TABLE IF NOT EXISTS `T4P2.3`.` 'DNI` VARCHAR(9) NOT NULL, 'Fec_ini` DATE NULL, 'CIF` VARCHAR(9) NULL, PRIMARY KEY ('DNI'), INDEX 'DNI' ('DNI' ASC) VISIBLE, INDEX 'CIF' ('CIF' ASC) VISIBLE, CONSTRAINT 'ParticipanteTrabajador' FOREIGN KEY ('DNI') REFERENCES `T4P2.3`. 'Participante' ('DNI') ON DELETE RESTRICT ON UPDATE CASCADE, CONSTRAINT 'TrabajadorAsociacion' FOREIGN KEY ('CIF') REFERENCES `T4P2.3`. 'Asociacion' ('CIFON DELETE RESTRICT ON UPDATE CASCADE)	NI')

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Tema 4 – Modelo Relacional

NOMBRE: Alonso Marrero Bello

ENGINE = InnoDB;
Table 14F2.5 . Socio
CREATE TABLE IF NOT EXISTS `T4P2.3`.`Socio` (
Table `T4P2.3`.`Asalariado`
CREATE TABLE IF NOT EXISTS `T4P2.3`.`Asalariado` (
CREATE TABLE IF NOT EXISTS 'T4P2.3'.'Voluntario' ('DNI' VARCHAR(9) NOT NULL, 'edad' INT NULL, 'horas' FLOAT NULL, 'profesion' VARCHAR(45) NULL, PRIMARY KEY ('DNI'), INDEX 'DNI' ('DNI' ASC) VISIBLE,

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Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello

CONSTRAINT 'TrabajadorVoluntario' FOREIGN KEY ('DNI') REFERENCES 'T4P2.3'. 'Trabajador' ('DNI') ON DELETE RESTRICT ON UPDATE CASCADE) ENGINE = InnoDB;-- Table `T4P2.3`.`Proyecto` CREATE TABLE IF NOT EXISTS 'T4P2.3'. 'Proyecto' ('N id' INT NOT NULL, 'objetivo' VARCHAR(45) NULL, 'pais' VARCHAR(45) NULL, 'beneficiarios' VARCHAR(45) NULL, 'zona' VARCHAR(45) NULL, 'CIF' VARCHAR(9) NULL, PRIMARY KEY ('N id'), INDEX 'CIF' ('CIF' ASC) VISIBLE, CONSTRAINT 'CIF Aso' FOREIGN KEY ('CIF') REFERENCES 'T4P2.3'. 'Asociacion' ('CIF') ON DELETE RESTRICT ON UPDATE CASCADE) ENGINE = InnoDB;-- Table `T4P2.3`.`Esta formada` CREATE TABLE IF NOT EXISTS 'T4P2.3'. 'Esta formada' ('DNI' VARCHAR(9) NOT NULL, 'CIF' VARCHAR(9) NOT NULL, 'fec alta' DATE NULL, 'cuota' FLOAT NULL, 'aportacion' FLOAT NULL, PRIMARY KEY ('DNI', 'CIF'), INDEX 'DNI' ('DNI' ASC) INVISIBLE, INDEX 'CIF' ('CIF' ASC) VISIBLE, CONSTRAINT 'DNI Socio' FOREIGN KEY ('DNI') REFERENCES 'T4P2.3'. 'Socio' ('DNI') ON DELETE RESTRICT ON UPDATE CASCADE,

CONSTRAINT `CIF_Asocia` FOREIGN KEY (`CIF`)

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Tema 4 - Modelo Relacional

NOMBRE: Alonso Marrero Bello

REFERENCES `T4P2.3`.`Asociacion` (`CIF`) ON DELETE RESTRICT ON UPDATE CASCADE) ENGINE = InnoDB;

-- Table `T4P2.3`.`Compuesto`

-- -----

CREATE TABLE IF NOT EXISTS 'T4P2.3'. 'Compuesto' (

'N_id' INT NOT NULL,

'N id com' INT NOT NULL,

PRIMARY KEY ('N_id', 'N_id_com'),

INDEX 'N_id' ('N_id' ASC) VISIBLE,

INDEX 'N_id_com' ('N_id_com' ASC) INVISIBLE,

CONSTRAINT 'N id'

FOREIGN KEY ('N id')

REFERENCES 'T4P2.3'. 'Proyecto' ('N_id')

ON DELETE RESTRICT

ON UPDATE CASCADE,

CONSTRAINT 'N id com'

FOREIGN KEY ('N id com')

REFERENCES 'T4P2.3'. 'Proyecto' ('N id')

ON DELETE RESTRICT

ON UPDATE CASCADE)

ENGINE = InnoDB;

SET SQL MODE=@OLD SQL MODE;

SET FOREIGN KEY CHECKS=@OLD FOREIGN KEY CHECKS;

SET UNIQUE CHECKS=@OLD UNIQUE CHECKS;