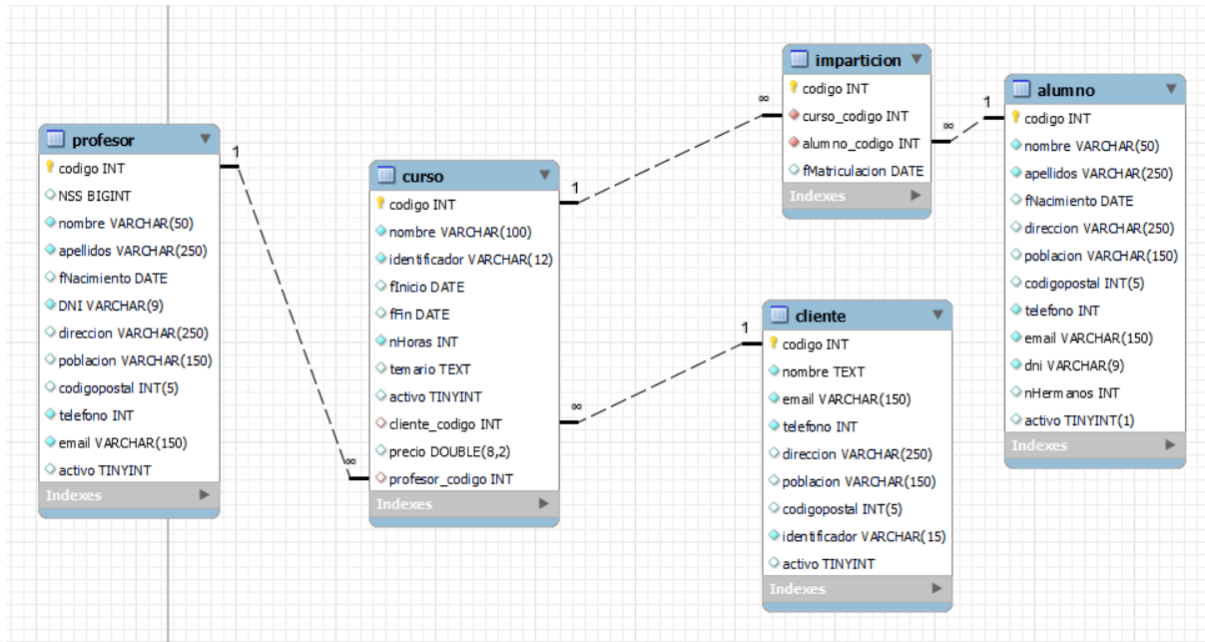
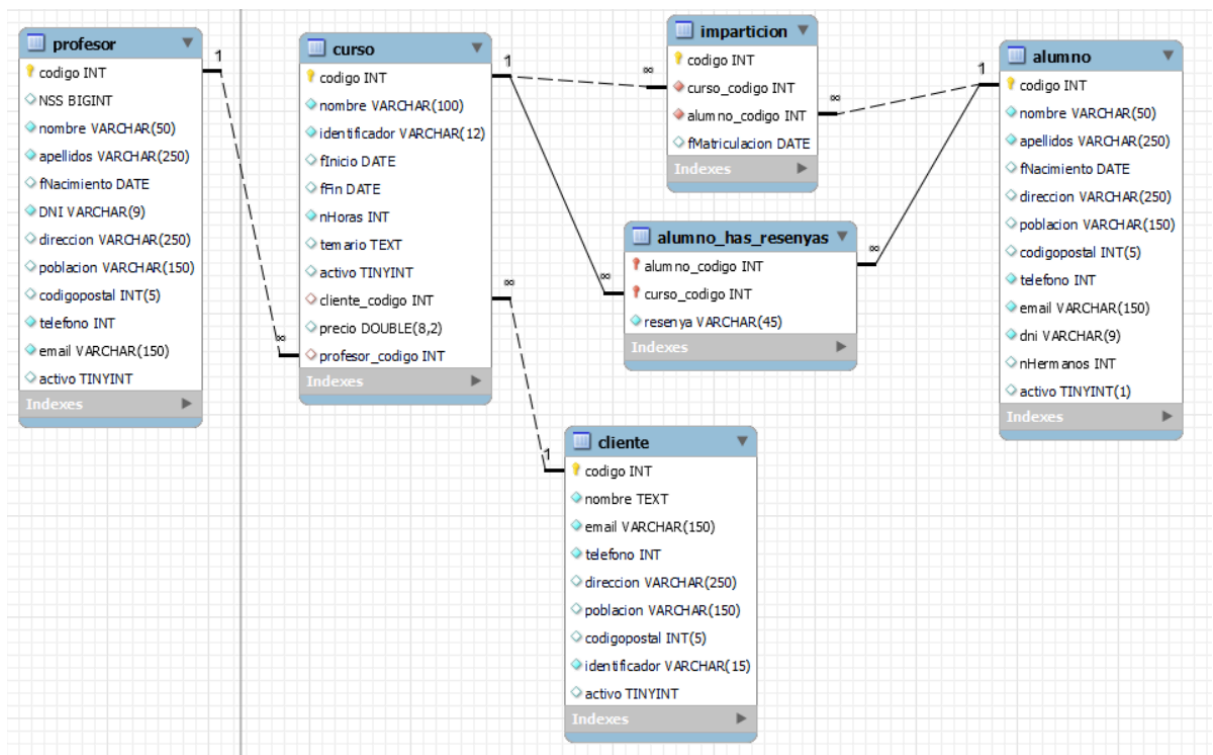


1. DIAGRAMA ACTUAL



2. DIAGRAMA CON NUEVA TABLA:



3. SCRIPT DE BACKUP BDD ACTUAL:

```
CREATE DATABASE IF NOT EXISTS `mf0966_3` /*!40100 DEFAULT CHARACTER SET
utf8mb3 COLLATE utf8mb3_bin */ /*!80016 DEFAULT ENCRYPTION='N' */;
USE `mf0966_3`;
-- MySQL dump 10.13 Distrib 8.0.36, for Win64 (x86_64)
--
-- Host: localhost Database: mf0966_3
--
-- Server version 8.0.32

/*!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 */;
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0
*/;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `alumno`
--

DROP TABLE IF EXISTS `alumno`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `alumno` (
  `codigo` int NOT NULL AUTO_INCREMENT COMMENT 'el campo clave de la tabla. Es
auto generado.',
  `nombre` varchar(50) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
  `apellidos` varchar(250) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
```

```

`fNacimiento` date DEFAULT NULL,
`direccion` varchar(250) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin DEFAULT
NULL,
`poblacion` varchar(150) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin DEFAULT
NULL,
`codigopostal` int(5) unsigned zerofill DEFAULT NULL,
`telefono` int NOT NULL,
`email` varchar(150) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
`dni` varchar(9) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
`nHermanos` int DEFAULT '0',
`activo` tinyint(1) DEFAULT '1',
PRIMARY KEY (`codigo`),
UNIQUE KEY `dni_UNIQUE` (`dni`)
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=utf8mb3
COLLATE=utf8mb3_bin;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Dumping data for table `alumno`
--

```

```

LOCK TABLES `alumno` WRITE;
/*!40000 ALTER TABLE `alumno` DISABLE KEYS */;
INSERT INTO `alumno` VALUES (0,'alumno','sin
asignar',NULL,NULL,NULL,00000,0,'aaaaaaa@aaaaa.com','0000000x',0,0),(1,'sergio','apari
cio
vargas','1977-12-01','",",00000,944110293,'aaaa@aaaa.com','44974398z',0,1),(2,'maite','mo
nasterio','1986-11-11','",",48007,944110293,'mmonasterio@gmail.com','16071559x',0,1),(4,'e
nrique javier','ruiz
jimenez','2017-02-14','",",00048,944110239,'enrique@gmail.com','45677362y',0,1);
/*!40000 ALTER TABLE `alumno` ENABLE KEYS */;
UNLOCK TABLES;

```

```

--
-- Table structure for table `cliente`
--

```

```

DROP TABLE IF EXISTS `cliente`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `cliente` (
  `codigo` int NOT NULL AUTO_INCREMENT,
  `nombre` text CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
  `email` varchar(150) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
  `telefono` int NOT NULL,
  `direccion` varchar(250) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin DEFAULT
NULL,

```

```
`poblacion` varchar(150) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin DEFAULT
NULL,
`codigopostal` int(5) unsigned zerofill DEFAULT NULL,
`identificador` varchar(15) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
`activo` tinyint DEFAULT '1',
PRIMARY KEY (`codigo`)
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8mb3
COLLATE=utf8mb3_bin;
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--
-- Dumping data for table `cliente`
--
```

```
LOCK TABLES `cliente` WRITE;
/*!40000 ALTER TABLE `cliente` DISABLE KEYS */;
INSERT INTO `cliente` VALUES (0,'Sin
Definir','aaaaaa@aaaaa.com',9444,NULL,NULL,NULL,'#####',0),(1,'SERIKAT
CONSULTORÍA E INFORMÁTICA, S.A.','info@serikat.es',944250100,'c/ Ercilla
19','Bilbao',48009,'A-48476006',1),(2,'lanbide - servicio vasco de
empleo','info@lanbide.net',945160601,'Jose Atxotegi
1','Vitoria-Gazteiz',01009,'Q0100571I',1),(3,'hobetuz','bizkaia@hobetuz.eus',944150808,'gra
n vía, 35-6º',NULL,NULL,'g48850127',1);
/*!40000 ALTER TABLE `cliente` ENABLE KEYS */;
UNLOCK TABLES;
```

```
--
-- Table structure for table `curso`
--
```

```
DROP TABLE IF EXISTS `curso`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `curso` (
  `codigo` int NOT NULL AUTO_INCREMENT,
  `nombre` varchar(100) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
  `identificador` varchar(12) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,
  `flnicio` date DEFAULT NULL,
  `fFin` date DEFAULT NULL,
  `nHoras` int NOT NULL,
  `temario` text CHARACTER SET utf8mb3 COLLATE utf8mb3_bin,
  `activo` tinyint DEFAULT '1',
  `cliente_codigo` int DEFAULT NULL,
  `precio` double(8,2) DEFAULT '0.00',
  `profesor_codigo` int DEFAULT NULL,
  PRIMARY KEY (`codigo`),
  KEY `fk_curso_cliente_codigo_idx` (`cliente_codigo`),
  KEY `fk_curso_profesor_codigo_idx` (`profesor_codigo`),
```

```
CONSTRAINT `fk_curso_cliente_codigo` FOREIGN KEY (`cliente_codigo`) REFERENCES
`cliente` (`codigo`),
CONSTRAINT `fk_curso_profesor_codigo` FOREIGN KEY (`profesor_codigo`)
REFERENCES `profesor` (`codigo`)
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=utf8mb3
COLLATE=utf8mb3_bin;
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--
-- Dumping data for table `curso`
--
```

```
LOCK TABLES `curso` WRITE;
/*!40000 ALTER TABLE `curso` DISABLE KEYS */;
INSERT INTO `curso` VALUES (1,'Desarrollo de Aplicaciones con Tecnologias
Web','18482675','2017-01-09','2017-06-13',510,NULL,1,2,300000.00,1),(2,'Desarrollo de
Bases de Datos y Programacion orientada a
Objetos','18488225','2017-02-20','2017-09-29',630,'IFCD0112_FIC.pdf',1,2,400000.00,1),(3,'
Publicidad en
internet','18482678','2017-03-27','2017-03-30',10,NULL,1,3,1500.00,1),(4,'Programación en
Bases de Datos relaciones con Oracle
12c','CI67','2017-05-02','2017-05-30',30,'CI67.pdf',1,3,3500.00,1);
/*!40000 ALTER TABLE `curso` ENABLE KEYS */;
UNLOCK TABLES;
```

```
--
-- Table structure for table `imparticion`
--
```

```
DROP TABLE IF EXISTS `imparticion`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `imparticion` (
  `codigo` int NOT NULL AUTO_INCREMENT,
  `curso_codigo` int NOT NULL,
  `alumno_codigo` int NOT NULL,
  `fMatriculacion` date DEFAULT NULL,
  PRIMARY KEY (`codigo`),
  KEY `fk_imparticion_alumno_codigo_idx` (`alumno_codigo`),
  KEY `fk_imparticion_curso_codigo_idx` (`curso_codigo`),
  CONSTRAINT `fk_imparticion_alumno_codigo` FOREIGN KEY (`alumno_codigo`)
REFERENCES `alumno` (`codigo`),
  CONSTRAINT `fk_imparticion_curso_codigo` FOREIGN KEY (`curso_codigo`)
REFERENCES `curso` (`codigo`)
) ENGINE=InnoDB AUTO_INCREMENT=51 DEFAULT CHARSET=utf8mb3
COLLATE=utf8mb3_bin;
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--  
-- Dumping data for table `imparticion`  
--
```

```
LOCK TABLES `imparticion` WRITE;  
/*!40000 ALTER TABLE `imparticion` DISABLE KEYS */;  
INSERT INTO `imparticion` VALUES  
(9,3,2,NULL),(10,3,4,NULL),(15,2,1,NULL),(16,2,2,NULL),(17,2,4,NULL),(48,1,1,NULL),(49,  
1,2,NULL),(50,1,4,NULL);  
/*!40000 ALTER TABLE `imparticion` ENABLE KEYS */;  
UNLOCK TABLES;
```

```
--  
-- Table structure for table `profesor`  
--
```

```
DROP TABLE IF EXISTS `profesor`;  
/*!40101 SET @saved_cs_client = @@character_set_client */;  
/*!50503 SET character_set_client = utf8mb4 */;  
CREATE TABLE `profesor` (  
  `codigo` int NOT NULL AUTO_INCREMENT,  
  `NSS` bigint DEFAULT NULL,  
  `nombre` varchar(50) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,  
  `apellidos` varchar(250) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,  
  `fNacimiento` date DEFAULT NULL,  
  `DNI` varchar(9) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,  
  `direccion` varchar(250) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin DEFAULT  
NULL,  
  `poblacion` varchar(150) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin DEFAULT  
NULL,  
  `codigopostal` int(5) unsigned zerofill DEFAULT NULL,  
  `telefono` int NOT NULL,  
  `email` varchar(150) CHARACTER SET utf8mb3 COLLATE utf8mb3_bin NOT NULL,  
  `activo` tinyint DEFAULT '1',  
  PRIMARY KEY (`codigo`)  
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8mb3  
COLLATE=utf8mb3_bin;  
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--  
-- Dumping data for table `profesor`  
--
```

```
LOCK TABLES `profesor` WRITE;  
/*!40000 ALTER TABLE `profesor` DISABLE KEYS */;  
INSERT INTO `profesor` VALUES (0,0,'profesor','sin  
asignar',NULL,'00000000z',NULL,NULL,NULL,0,'aaaaaaaa@aaaaa.aaa',0),(1,48123456784
```

```
0,'Ander','Ipartek','1976-11-24','30693142x','Av. Mazustegi
9','Bilbao',48009,944110293,'auraga@ipartek.com',1);
/*!40000 ALTER TABLE `profesor` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Dumping events for database 'mf0966_3'
--

--
-- Dumping routines for database 'mf0966_3'
--
/*!50003 DROP PROCEDURE IF EXISTS `alumnoCreate` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results    = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */;
/*!50003 SET @saved_sql_mode      = @@sql_mode */;
/*!50003 SET sql_mode             = 'NO_AUTO_VALUE_ON_ZERO' */;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `alumnoCreate`(IN `papellidos`
VARCHAR(250), IN `pcodigopostal` INT(5), IN `pdireccion` VARCHAR(250), IN `pdni`
VARCHAR(9), IN `pemail` VARCHAR(150), IN `pfNacimiento` DATE, IN `pnHermanos`
INT(2), IN `pnombre` VARCHAR(50), IN `ppoblacion` VARCHAR(150), IN `ptelefono` INT(9),
OUT `pcodigo` INT)
BEGIN

INSERT      INTO
alumno(nombre,apellidos,dni,email,direccion,codigopostal,poblacion,fNacimiento,telefono,n
Hermanos)
VALUES(LOWER(pnombre),LOWER(papellidos),LOWER(pdni),LOWER(pemail),LOWER(pd
ireccion),pcodigopostal,LOWER(ppoblacion),pfNacimiento,ptelefono,pnHermanos);
SET pcodigo = LAST_INSERT_ID();

END ;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */;
/*!50003 SET character_set_client  = @saved_cs_client */;
/*!50003 SET character_set_results = @saved_cs_results */;
/*!50003 SET collation_connection = @saved_col_connection */;
/*!50003 DROP PROCEDURE IF EXISTS `alumnoDelete` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results    = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
```

```

/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `alumnoDelete`(IN `pcodigo` INT)
    NO SQL
BEGIN

```

```

DELETE FROM alumno WHERE codigo = pcodigo;

```

```

END ;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `alumnogetAll` */ ;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `alumnogetAll`()
    NO SQL
BEGIN

```

```

    SELECT `codigo` as alumnocodigo, `nombre` as alumnonombre, `apellidos` as
alumnoapellidos, `fNacimiento` as alumnofnacimiento, `direccion` as alumnodireccion,
`poblacion` as alumnopoblacion, `codigopostal` as alumnocodigopostal, `telefono` as
alumnotelefono, `email` as alumnoemail, `dni` as alumnodni, `nHermanos` as
alumnonhermanos, `activo` as alumnoactivo

```

```

    FROM `alumno`
    WHERE alumno.activo = true;
END ;;

```

```

DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `alumnogetByCurso` */ ;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;

```



```

/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode             = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER='root'@'localhost' PROCEDURE `alumnogetByCurso`(IN
`pcursocodigo` INT)
BEGIN
    SELECT a.`codigo` as alumnocodigo, a.`nombre` as alumnonombre, a.`apellidos` as
    alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
    a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as
    alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, a.`nHermanos` as
    alumnonhermanos, a.`activo` as alumnoactivo
    FROM `alumno` as a
        inner join imparticion as i ON i.alumno_codigo = a.codigo
        inner join curso as c ON i.curso_codigo = c.codigo
    WHERE c.codigo = pcursocodigo
    group by a.codigo;

```

```

END ;;
DELIMITER ;
/*!50003 SET sql_mode             = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `alumnogetByDni` */;
/*!50003 SET @saved_cs_client     = @@character_set_client */ ;
/*!50003 SET @saved_cs_results    = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode             = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER='root'@'localhost' PROCEDURE `alumnogetByDni`(IN `pdni`
VARCHAR(9))
BEGIN
    SELECT `codigo` as alumnocodigo, `nombre` as alumnonombre, `apellidos` as
    alumnoapellidos, `fNacimiento` as alumnofnacimiento, `direccion` as alumnodireccion,
    `poblacion` as alumnopoblacion, `codigopostal` as alumnocodigopostal, `telefono` as
    alumnotelefono, `email` as alumnoemail, `dni` as alumnodni, `nHermanos` as
    alumnonhermanos, `activo` as alumnoactivo
    FROM `alumno`
    WHERE dni = pdni;
END ;;
DELIMITER ;
/*!50003 SET sql_mode             = @saved_sql_mode */ ;

```

```

/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `alumnogetByld` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `alumnogetByld`(IN `pcodigo` INT)
    NO SQL
BEGIN

```

```

    SELECT `codigo` as alumnocodigo, `nombre` as alumnonombre, `apellidos` as
    alumnoapellidos, `fNacimiento` as alumnofnacimiento, `direccion` as alumnodireccion,
    `poblacion` as alumnopoblacion, `codigopostal` as alumnocodigopostal, `telefono` as
    alumnotelefono, `email` as alumnoemail, `dni` as alumnodni, `nHermanos` as
    alumnonhermanos, `activo` as alumnoactivo

```

```

    FROM `alumno`

```

```

    WHERE codigo = pcodigo;

```

```

END ;;

```

```

DELIMITER ;

```

```

/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `alumnoInforme` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `alumnoInforme`(IN `pcodigo` INT)
BEGIN

```

```

    SELECT a.`codigo` as alumnocodigo, a.`nombre` as alumnonombre, a.`apellidos` as
    alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
    a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as

```

```

alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, `nHermanos` as
alumnnonhermanos, a.`activo` as alumnoactivo,
    c.codigo as cursocodigo,c.nombre as cursonombre,
    c.identificador as cursoidentificador, c.fInicio as cursofinicio, c.fFin as cursoffin,c.nHoras
as cursonhoras,c.precio as cursoprecio

```

```

/*,SUM(cd.precio) as preciocurso*/

```

```

FROM alumno as a

```

```

LEFT JOIN imparticion as i ON i.alumno_codigo = a.codigo

```

```

LEFT JOIN curso as c ON c.codigo = i.curso_codigo

```

```

WHERE a.codigo = pcodigo;

```

```

END ;;

```

```

DELIMITER ;

```

```

/*!50003 SET sql_mode          = @saved_sql_mode */ ;

```

```

/*!50003 SET character_set_client = @saved_cs_client */ ;

```

```

/*!50003 SET character_set_results = @saved_cs_results */ ;

```

```

/*!50003 SET collation_connection = @saved_col_connection */ ;

```

```

/*!50003 DROP PROCEDURE IF EXISTS `alumnoUpdate` */;

```

```

/*!50003 SET @saved_cs_client      = @@character_set_client */ ;

```

```

/*!50003 SET @saved_cs_results     = @@character_set_results */ ;

```

```

/*!50003 SET @saved_col_connection = @@collation_connection */ ;

```

```

/*!50003 SET character_set_client = utf8mb4 */ ;

```

```

/*!50003 SET character_set_results = utf8mb4 */ ;

```

```

/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;

```

```

/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;

```

```

/*!50003 SET sql_mode            = 'NO_AUTO_VALUE_ON_ZERO' */ ;

```

```

DELIMITER ;;

```

```

CREATE DEFINER='admin'@`%` PROCEDURE `alumnoUpdate`(IN `papellidos`
VARCHAR(250), IN `pcodigo` INT, IN `pcodigopostal` INT(5), IN `pdireccion`
VARCHAR(250), IN `pdni` VARCHAR(9), IN `pemail` VARCHAR(150), IN `pfNacimiento`
DATE, IN `pnHermanos` INT(2), IN `pnombre` VARCHAR(150), IN `ppoblacion`
VARCHAR(150), IN `ptelefono` INT(9))

```

```

NO SQL

```

```

BEGIN

```

```

UPDATE alumno

```

```

SET nombre = LOWER(pnombre),apellidos = LOWER(papellidos), dni =

```

```

LOWER(pdni),email =

```

```

LOWER(pemail),direccion=LOWER(pdireccion),codigopostal=pcodigopostal,poblacion=LO

```

```

WER(ppoblacion),fNacimiento=pfNacimiento,telefono=ptelefono,nHermanos=pnHermanos

```

```

WHERE codigo = pcodigo;

```

```

END ;;

```

```

DELIMITER ;

```

```

/*!50003 SET sql_mode          = @saved_sql_mode */ ;

```

```

/*!50003 SET character_set_client = @saved_cs_client */ ;

```

```

/*!50003 SET character_set_results = @saved_cs_results */ ;

```

```

/*!50003 SET collation_connection = @saved_col_connection */ ;

```

```
/*!50003 DROP PROCEDURE IF EXISTS `clienteCreate` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results     = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */;
/*!50003 SET @saved_sql_mode       = @@sql_mode */;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `clienteCreate`(IN `pnombre` TEXT,
IN `pemail` VARCHAR(150), IN `ptelefono` INT, IN `pdireccion` VARCHAR(150), IN
`ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN `pidentificador` VARCHAR(50),
OUT `pcodigo` INT)
BEGIN
INSERT INTO cliente(`nombre`, `email`, `telefono`, `direccion`, `poblacion`, `codigopostal`,
`identificador`)
VALUES(LOWER(pnombre),
      LOWER(pemail),
      ptelefono,
      LOWER(pdireccion),
      LOWER(poblacion),
      codigopostal,
      LOWER(pidentificador));
      SET pcodigo = LAST_INSERT_ID();
END ;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */;
/*!50003 SET character_set_client  = @saved_cs_client */;
/*!50003 SET character_set_results = @saved_cs_results */;
/*!50003 SET collation_connection = @saved_col_connection */;
/*!50003 DROP PROCEDURE IF EXISTS `clientegetAll` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results     = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */;
/*!50003 SET @saved_sql_mode       = @@sql_mode */;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `clientegetAll`()
NO SQL
BEGIN
      SELECT `codigo` as clientecodigo, `nombre` as clientenombre, `email` as
clienteemail, `telefono` as clientetelefono, `direccion` as clientedireccion, `poblacion` as
clientepoblacion, `codigopostal` as clientecodigopostal, `identificador` as
clienteidentificador, activo as clienteactivo
```

```

        FROM `cliente`
        WHERE cliente.activo = true;
    END ;;
    DELIMITER ;
    /*!50003 SET sql_mode            = @saved_sql_mode */ ;
    /*!50003 SET character_set_client = @saved_cs_client */ ;
    /*!50003 SET character_set_results = @saved_cs_results */ ;
    /*!50003 SET collation_connection = @saved_col_connection */ ;
    /*!50003 DROP PROCEDURE IF EXISTS `clientegetByld` */;
    /*!50003 SET @saved_cs_client      = @@character_set_client */ ;
    /*!50003 SET @saved_cs_results     = @@character_set_results */ ;
    /*!50003 SET @saved_col_connection = @@collation_connection */ ;
    /*!50003 SET character_set_client  = utf8mb4 */ ;
    /*!50003 SET character_set_results = utf8mb4 */ ;
    /*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
    /*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
    /*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
    DELIMITER ;;
    CREATE DEFINER=`root`@`localhost` PROCEDURE `clientegetByld`(IN `pcodigo` INT)
    BEGIN
        SELECT `codigo` as clientecodigo, `nombre` as clientenombre, `email` as
        clienteemail, `telefono` as clientetelefono, `direccion` as clientedireccion, `poblacion` as
        clientepoblacion, `codigopostal` as clientecodigopostal, `identificador` as
        clienteidentificador, activo as clienteactivo
        FROM `cliente`
        WHERE codigo = pcodigo;
    END ;;
    DELIMITER ;
    /*!50003 SET sql_mode            = @saved_sql_mode */ ;
    /*!50003 SET character_set_client = @saved_cs_client */ ;
    /*!50003 SET character_set_results = @saved_cs_results */ ;
    /*!50003 SET collation_connection = @saved_col_connection */ ;
    /*!50003 DROP PROCEDURE IF EXISTS `clientegetByldidentificador` */;
    /*!50003 SET @saved_cs_client      = @@character_set_client */ ;
    /*!50003 SET @saved_cs_results     = @@character_set_results */ ;
    /*!50003 SET @saved_col_connection = @@collation_connection */ ;
    /*!50003 SET character_set_client  = utf8mb4 */ ;
    /*!50003 SET character_set_results = utf8mb4 */ ;
    /*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
    /*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
    /*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
    DELIMITER ;;
    CREATE DEFINER=`root`@`localhost` PROCEDURE `clientegetByldidentificador`(IN
    `pidentificador` VARCHAR(15))
    BEGIN
        SELECT `codigo` as clientecodigo, `nombre` as clientenombre, `email` as
        clienteemail, `telefono` as clientetelefono, `direccion` as clientedireccion, `poblacion` as

```

```

cliente poblacion, `codigopostal` as clientecodigopostal, `identificador` as
clienteidentificador, activo as clienteactivo

```

```

FROM `cliente`

```

```

WHERE identificador = pidentificador;

```

```

END ;;

```

```

DELIMITER ;

```

```

/*!50003 SET sql_mode          = @saved_sql_mode */ ;

```

```

/*!50003 SET character_set_client = @saved_cs_client */ ;

```

```

/*!50003 SET character_set_results = @saved_cs_results */ ;

```

```

/*!50003 SET collation_connection = @saved_col_connection */ ;

```

```

/*!50003 DROP PROCEDURE IF EXISTS `clienteInforme` */;

```

```

/*!50003 SET @saved_cs_client      = @@character_set_client */ ;

```

```

/*!50003 SET @saved_cs_results     = @@character_set_results */ ;

```

```

/*!50003 SET @saved_col_connection = @@collation_connection */ ;

```

```

/*!50003 SET character_set_client = utf8mb4 */ ;

```

```

/*!50003 SET character_set_results = utf8mb4 */ ;

```

```

/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;

```

```

/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;

```

```

/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;

```

```

DELIMITER ;;

```

```

CREATE DEFINER='root'@`localhost` PROCEDURE `clienteInforme`(IN `pcodigo` INT)

```

```

BEGIN

```

```

SELECT c.`codigo` as clientecodigo, c.`nombre` as clientenombre, c.`email` as clienteemail,

```

```

c.`telefono` as clientetelefono, c.`direccion` as clientedireccion, c.`poblacion` as

```

```

cliente poblacion, `codigopostal` as clientecodigopostal, c.`identificador` as

```

```

clienteidentificador, c.activo as clienteactivo, cu.codigo as cursocodigo, cu.nombre as

```

```

cursonombre, cu.identificador as cursoidentificador, cu.flnicio as cursofinicio, cu.fFin as

```

```

cursoffin, cu.nhoras as cursonhoras, cu.precio as cursoprecio FROM cliente as c LEFT JOIN

```

```

curso as cu ON cu.cliente_codigo = c.codigo WHERE c.codigo = pcodigo;

```

```

END ;;

```

```

DELIMITER ;

```

```

/*!50003 SET sql_mode          = @saved_sql_mode */ ;

```

```

/*!50003 SET character_set_client = @saved_cs_client */ ;

```

```

/*!50003 SET character_set_results = @saved_cs_results */ ;

```

```

/*!50003 SET collation_connection = @saved_col_connection */ ;

```

```

/*!50003 DROP PROCEDURE IF EXISTS `clienteUpdate` */;

```

```

/*!50003 SET @saved_cs_client      = @@character_set_client */ ;

```

```

/*!50003 SET @saved_cs_results     = @@character_set_results */ ;

```

```

/*!50003 SET @saved_col_connection = @@collation_connection */ ;

```

```

/*!50003 SET character_set_client = utf8mb4 */ ;

```

```

/*!50003 SET character_set_results = utf8mb4 */ ;

```

```

/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;

```

```

/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;

```

```

/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;

```

```

DELIMITER ;;

```

```

CREATE DEFINER='root'@`localhost` PROCEDURE `clienteUpdate`(IN `pcodigo` INT, IN

```

```

`pnombre` VARCHAR(150), IN `pemail` VARCHAR(150), IN `ptelefono` INT(9), IN

```

```

`pdireccion` VARCHAR(250), IN `ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN
`pidentificador` VARCHAR(15))
BEGIN
UPDATE `cliente`
SET `codigo`=pcodigo,
    `nombre`=pnombre,
    `email`=pemail,
    `telefono`=ptelefono,
    `direccion`=pdireccion,
    `poblacion`=ppoblacion,
    `codigopostal`=pcodigopostal,
    `identificador`=pidentificador;
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `cursocreate` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `cursocreate`(IN `pnombre`
VARCHAR(50), IN `pidentificador` VARCHAR(50), IN `pfinicio` DATE, IN `pffin` DATE, IN
`ptemario` VARCHAR(50), IN `pprecio` DOUBLE(8,2), IN `pcodigo_profesor` INT, IN
`pcodigo_cliente` INT, OUT `pcodigo` INT)
NO SQL
BEGIN

INSERT INTO
curso(nombre,identificador,fInicio,fFin,temario,precio,cliente_codigo,profesor_codigo)
VALUES(LOWER(pnombre),LOWER(pidentificador),pfinicio,pffin,LOWER(ptemario),pprecio,
pcodigo_profesor,pcodigo_cliente);
SET pcodigo = LAST_INSERT_ID();

END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `cursoDelete` */;

```

```

/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results     = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */;
/*!50003 SET @saved_sql_mode       = @@sql_mode */;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */;
DELIMITER ;;
CREATE DEFINER='admin'@`%` PROCEDURE `cursoDelete`(IN `pcodigo` INT)
    NO SQL
BEGIN

```

```

UPDATE curso SET activo = false
WHERE codigo = pcodigo;

```

```

END ;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */;
/*!50003 SET character_set_client  = @saved_cs_client */;
/*!50003 SET character_set_results = @saved_cs_results */;
/*!50003 SET collation_connection  = @saved_col_connection */;
/*!50003 DROP PROCEDURE IF EXISTS `cursogetAll` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results     = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */;
/*!50003 SET @saved_sql_mode       = @@sql_mode */;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */;
DELIMITER ;;

```

```

CREATE DEFINER='admin'@`%` PROCEDURE `cursogetAll`()

```

```

    NO SQL

```

```

BEGIN

```

```

SELECT

```

```

    c.`codigo` as cursocodigo, c.`nombre` as cursonombre, c.`identificador` as
    cursoidentificador, c.`fInicio` as cursofinicio, c.`fFin` as cursoffin, c.`nHoras` as cursonhoras,
    c.`temario` as cursotemario, c.`activo` as cursoactivo, c.`precio` as cursoprecio,
    p.`codigo` as profesorcodigo, p.`NSS` as profesornss, p.`nombre` as profesornombre,
    p.`apellidos` as profesorapellidos, p.`fNacimiento` as profesornacimiento, p.`DNI` as
    profesordni, p.`direccion` as profesordireccion, p.`poblacion` as profesorpoblacion,
    p.`codigopostal` as profesorcodigopostal, p.`telefono` as profesortelefono, p.`email` as
    profesoremail,p.activo as profesoractivo, cli.codigo as clientecodigo, cli.`nombre` as
    clientenombre, cli.`email` as clienteemail, cli.`telefono` as clientetelefono, cli.identificador as
    clienteidentificador, cli.`direccion` as clientedireccion, cli.`poblacion` as clientepoblacion,
    cli.`codigopostal` as clientecodigopostal, cli.activo as clienteactivo
FROM curso c

```



```

LEFT JOIN profesor p ON p.codigo = c.profesor_codigo
LEFT JOIN cliente cli ON cli.codigo = c.cliente_codigo
WHERE c.activo = true;

```

```
END ;;
```

```
DELIMITER ;
```

```

/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `cursogetByld` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;

```

```
DELIMITER ;;
```

```
CREATE DEFINER='admin'@`%` PROCEDURE `cursogetByld`(IN `pcodigo` INT)
```

```
NO SQL
```

```
BEGIN
```

```
SELECT
```

```

c.`codigo` as cursocodigo, c.`nombre` as cursonombre, c.`identificador` as
cursoidentificador, c.`fInicio` as cursofinicio, c.`fFin` as cursoffin, c.`nHoras` as cursonhoras,
c.`temario` as cursotemario, c.`activo` as cursoactivo, c.`precio` as cursoprecio,
p.`codigo` as profesorcodigo, p.`NSS` as profesornss, p.`nombre` as profesornombre,
p.`apellidos` as profesorapellidos, p.`fNacimiento` as profesornacimiento, p.`DNI` as
profesordni, p.`direccion` as profesordireccion, p.`poblacion` as profesorpoblacion,
p.`codigopostal` as profesorcodigopostal, p.`telefono` as profesortelefono, p.`email` as
profesoremail,p.activo as profesoractivo, cli.codigo as clientecodigo, cli.`nombre` as
clientenombre, cli.`email` as clienteemail, cli.`telefono` as clientetelefono, cli.identificador as
clienteidentificador, cli.`direccion` as clientedireccion, cli.`poblacion` as clientepoblacion,
cli.`codigopostal` as clientecodigopostal, cli.activo as clienteactivo, i.codigo as
imparticioncodigo,
i.fMatriculacion as imparticionfmatriculacion,
a.`codigo` as alumnocodigo, a.`nombre` as alunnonombre, a.`apellidos` as
alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as
alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, a.`nHermanos` as
alumnohermanos, a.`activo` as alumnoactivo

```

```
FROM curso c
```

```
INNER JOIN cliente cli ON cli.codigo = c.cliente_codigo
```

```
INNER JOIN profesor p ON p.codigo = c.profesor_codigo
```

```
INNER JOIN imparticion i on i.curso_codigo = c.codigo
```

```
INNER JOIN alumno a ON a.codigo = i.alumno_codigo
```

```

WHERE c.codigo = p.codigo;

END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `cursogetByIdentificador` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `cursogetByIdentificador`(IN
`pidentificador` VARCHAR(50))
    NO SQL
BEGIN
SELECT
    c.`codigo` as cursocodigo, c.`nombre` as cursonombre, c.`identificador` as
    cursoidentificador, c.`fInicio` as cursofinicio, c.`fFin` as cursoffin, c.`nHoras` as cursonhoras,
    c.`temario` as cursotemario, c.`activo` as cursoactivo, c.`precio` as cursoprecio,
    p.`codigo` as profesorcodigo, p.`NSS` as profesornss, p.`nombre` as profesornombre,
    p.`apellidos` as profesorapellidos, p.`fNacimiento` as profesornacimiento, p.`DNI` as
    profesordni, p.`direccion` as profesordireccion, p.`poblacion` as profesorpoblacion,
    p.`codigopostal` as profesorcodigopostal, p.`telefono` as profesortelefono, p.`email` as
    profesoremail, p.activo as profesoractivo, cli.codigo as clientecodigo, cli.`nombre` as
    clientenombre, cli.`email` as clienteemail, cli.`telefono` as clientetelefono, cli.identificador as
    clienteidentificador, cli.`direccion` as clientedireccion, cli.`poblacion` as clientepoblacion,
    cli.`codigopostal` as clientecodigopostal, cli.activo as clienteactivo, i.codigo as
    imparticioncodigo,
    i.fMatriculacion as imparticionfmatriculacion,
    a.`codigo` as alumnocodigo, a.`nombre` as alumnonombre, a.`apellidos` as
    alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
    a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as
    alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, a.`nHermanos` as
    alumnonhermanos, a.`activo` as alumnoactivo
    FROM curso c
    INNER JOIN cliente cli ON cli.codigo = c.cliente_codigo
    INNER JOIN profesor p ON p.codigo = c.profesor_codigo
    INNER JOIN imparticion i on i.curso_codigo = c.codigo
    INNER JOIN alumno a ON a.codigo = i.alumno_codigo
WHERE c.identificador = pidentificador;

```

```

END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `cursoupdate` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `cursoupdate`(IN `pcodigo` INT, IN
`pnombre` VARCHAR(50), IN `pidentificador` VARCHAR(50), IN `pfinicio` DATE, IN `pffin`
DATE, IN `pnhoras` INT, IN `ptemario` VARCHAR(50), IN `pprecio` DOUBLE(8,2), IN
`pcliente_codigo` INT, IN `pprofesor_codigo` INT)
    NO SQL
BEGIN

UPDATE curso SET nombre = pnombre, identificador = pidentificador, flnicio = pfinicio, fFin
= pffin, nHoras = phoras, temario = ptemario, precio = pprecio, cliente_codigo =
pcliente_codigo, profesor_codigo = pprofesor_codigo
WHERE codigo = pcodigo;

END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `profesorByDni` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `profesorByDni`(IN `dni`
VARCHAR(9))
BEGIN

```

```

SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo
FROM `profesor`
WHERE dni = pdni;
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `profesorCreate` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER='root'@`localhost` PROCEDURE `profesorCreate`(IN `pnss`
VARCHAR(150), IN `pnombre` VARCHAR(150), IN `papellidos` VARCHAR(250), IN
`pfNacimiento` DATE, IN `pdni` VARCHAR(9), IN `pdireccion` VARCHAR(150), IN
`ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN `ptelefono` INT(9), IN `pemail`
VARCHAR(150), OUT `pcodigo` INT)
BEGIN
    INSERT INTO `profesor` (
        `nombre`,
        `apellidos`,
        `fNacimiento`,
        `DNI`,
        `direccion`,
        `poblacion`,
        `codigopostal`,
        `telefono`,
        `email`)
    VALUES (
        LOWER(pnombre),
        LOWER(papellidos),
        pfNacimiento,
        LOWER(pdni),
        LOWER(pdireccion),
        LOWER(poblacion),
        pcodigopostal,
        ptelefono,

```

```

        LOWER(pemail)
    );
    SET pcodigo = LAST_INSERT_ID();
    if pnss != " THEN
        update profesor set nss = pnss where codigo = pcodigo;
    END IF;
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `profesorgetAll` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER=`admin`@`%` PROCEDURE `profesorgetAll`()
    NO SQL
    BEGIN

        SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo
        FROM `profesor`
        WHERE profesor.activo = true;

    END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `profesorgetByDni` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;

```

```
/*!50003 SET sql_mode          = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER='root'@'localhost' PROCEDURE `profesorgetByDni`(IN `pdni`
VARCHAR(9))
BEGIN
    SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo
    FROM `profesor`
    WHERE dni = pdni;
END ;;
DELIMITER ;
/*!50003 SET sql_mode          = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `profesorgetByDni` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER='root'@'localhost' PROCEDURE `profesorgetByDni`(IN `pcodigo` INT)
BEGIN
    SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo
    FROM `profesor`
    WHERE codigo = pcodigo;
END ;;
DELIMITER ;
/*!50003 SET sql_mode          = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `profesorgetByDni` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
```

```
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode             = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER='root'@'localhost' PROCEDURE `profesorgetByNss`(IN `pnss`
VARCHAR(12))
BEGIN
    SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo
    FROM `profesor`
    WHERE nss = pnss;
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `profesorUpdate` */ ;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode            = 'NO_AUTO_VALUE_ON_ZERO' */ ;
DELIMITER ;;
CREATE DEFINER='root'@'localhost' PROCEDURE `profesorUpdate`(IN `pnss`
VARCHAR(12), IN `pnombre` VARCHAR(150), IN `papellidos` VARCHAR(250), IN
`pfNacimiento` DATE, IN `pdni` VARCHAR(9), IN `pdireccion` VARCHAR(250), IN
`ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN `ptelefono` INT(9), IN `pemail`
VARCHAR(150))
BEGIN

UPDATE `profesor`
SET `NSS`=pnss,
    `nombre`=pnombre,
    `apellidos`=papellidos,
    `fNacimiento`=pfNacimiento,
    `DNI`=pdni,
    `direccion`=pdireccion,
    `poblacion`=ppoblacion,
    `codigopostal`=pcodigopostal,
    `telefono`=ptelefono,
```

```
`email`=pemail
WHERE codigo = pcodigo;
```

```
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!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 */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```

```
-- Dump completed on 2024-02-29 8:50:49
```

4. SCRIPT CON LA NUEVA TABLA:

```
-- MySQL Workbench Forward Engineering
```

```
SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0;
SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_
O_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
```

```
-- -----
-- Schema mydb
-- -----
```

```
-- Schema mf0966_3
-- -----
```

```
-- -----
-- Schema mf0966_3
-- -----
```

```
CREATE SCHEMA IF NOT EXISTS `mf0966_3` ;
USE `mf0966_3` ;
```

```
-- -----
-- Table `mf0966_3`.`alumno`
```



```
-----  
CREATE TABLE IF NOT EXISTS `mf0966_3`.`alumno` (  
  `codigo` INT NOT NULL AUTO_INCREMENT COMMENT 'el campo clave de la tabla. Es  
auto generado.',  
  `nombre` VARCHAR(50) CHARACTER SET 'utf8mb3' NOT NULL,  
  `apellidos` VARCHAR(250) CHARACTER SET 'utf8mb3' NOT NULL,  
  `fNacimiento` DATE NULL DEFAULT NULL,  
  `direccion` VARCHAR(250) CHARACTER SET 'utf8mb3' NULL DEFAULT NULL,  
  `poblacion` VARCHAR(150) CHARACTER SET 'utf8mb3' NULL DEFAULT NULL,  
  `codigopostal` INT(5) UNSIGNED ZEROFILL NULL DEFAULT NULL,  
  `telefono` INT NOT NULL,  
  `email` VARCHAR(150) CHARACTER SET 'utf8mb3' NOT NULL,  
  `dni` VARCHAR(9) CHARACTER SET 'utf8mb3' NOT NULL,  
  `nHermanos` INT NULL DEFAULT '0',  
  `activo` TINYINT(1) NULL DEFAULT '1',  
  PRIMARY KEY (`codigo`),  
  UNIQUE INDEX `dni_UNIQUE` (`dni` ASC) VISIBLE)  
ENGINE = InnoDB  
AUTO_INCREMENT = 7;
```

```
-----  
-- Table `mf0966_3`.`cliente`  
-----
```

```
CREATE TABLE IF NOT EXISTS `mf0966_3`.`cliente` (  
  `codigo` INT NOT NULL AUTO_INCREMENT,  
  `nombre` TEXT CHARACTER SET 'utf8mb3' NOT NULL,  
  `email` VARCHAR(150) CHARACTER SET 'utf8mb3' NOT NULL,  
  `telefono` INT NOT NULL,  
  `direccion` VARCHAR(250) CHARACTER SET 'utf8mb3' NULL DEFAULT NULL,  
  `poblacion` VARCHAR(150) CHARACTER SET 'utf8mb3' NULL DEFAULT NULL,  
  `codigopostal` INT(5) UNSIGNED ZEROFILL NULL DEFAULT NULL,  
  `identificador` VARCHAR(15) CHARACTER SET 'utf8mb3' NOT NULL,  
  `activo` TINYINT NULL DEFAULT '1',  
  PRIMARY KEY (`codigo`))  
ENGINE = InnoDB  
AUTO_INCREMENT = 4;
```

```
-----  
-- Table `mf0966_3`.`profesor`  
-----
```

```
CREATE TABLE IF NOT EXISTS `mf0966_3`.`profesor` (  
  `codigo` INT NOT NULL AUTO_INCREMENT,  
  `NSS` BIGINT NULL DEFAULT NULL,  
  `nombre` VARCHAR(50) CHARACTER SET 'utf8mb3' NOT NULL,  
  `apellidos` VARCHAR(250) CHARACTER SET 'utf8mb3' NOT NULL,  
  `fNacimiento` DATE NULL DEFAULT NULL,
```

```
`DNI` VARCHAR(9) CHARACTER SET 'utf8mb3' NOT NULL,  
`direccion` VARCHAR(250) CHARACTER SET 'utf8mb3' NULL DEFAULT NULL,  
`poblacion` VARCHAR(150) CHARACTER SET 'utf8mb3' NULL DEFAULT NULL,  
`codigopostal` INT(5) UNSIGNED ZEROFILL NULL DEFAULT NULL,  
`telefono` INT NOT NULL,  
`email` VARCHAR(150) CHARACTER SET 'utf8mb3' NOT NULL,  
`activo` TINYINT NULL DEFAULT '1',  
PRIMARY KEY (`codigo`))  
ENGINE = InnoDB  
AUTO_INCREMENT = 2;
```

```
-- -----  
-- Table `mf0966_3`.`curso`  
-- -----
```

```
CREATE TABLE IF NOT EXISTS `mf0966_3`.`curso` (  
  `codigo` INT NOT NULL AUTO_INCREMENT,  
  `nombre` VARCHAR(100) CHARACTER SET 'utf8mb3' NOT NULL,  
  `identificador` VARCHAR(12) CHARACTER SET 'utf8mb3' NOT NULL,  
  `fInicio` DATE NULL DEFAULT NULL,  
  `fFin` DATE NULL DEFAULT NULL,  
  `nHoras` INT NOT NULL,  
  `temario` TEXT CHARACTER SET 'utf8mb3' NULL DEFAULT NULL,  
  `activo` TINYINT NULL DEFAULT '1',  
  `cliente_codigo` INT NULL DEFAULT NULL,  
  `precio` DOUBLE(8,2) NULL DEFAULT '0.00',  
  `profesor_codigo` INT NULL DEFAULT NULL,  
  PRIMARY KEY (`codigo`),  
  INDEX `fk_curso_cliente_codigo_idx` (`cliente_codigo` ASC) VISIBLE,  
  INDEX `fk_curso_profesor_codigo_idx` (`profesor_codigo` ASC) VISIBLE,  
  CONSTRAINT `fk_curso_cliente_codigo`  
    FOREIGN KEY (`cliente_codigo`)  
      REFERENCES `mf0966_3`.`cliente` (`codigo`),  
  CONSTRAINT `fk_curso_profesor_codigo`  
    FOREIGN KEY (`profesor_codigo`)  
      REFERENCES `mf0966_3`.`profesor` (`codigo`))  
ENGINE = InnoDB  
AUTO_INCREMENT = 5;
```

```
-- -----  
-- Table `mf0966_3`.`imparticion`  
-- -----
```

```
CREATE TABLE IF NOT EXISTS `mf0966_3`.`imparticion` (  
  `codigo` INT NOT NULL AUTO_INCREMENT,  
  `curso_codigo` INT NOT NULL,  
  `alumno_codigo` INT NOT NULL,  
  `fMatriculacion` DATE NULL DEFAULT NULL,
```

```
PRIMARY KEY (`codigo`),
INDEX `fk_imparticion_alumno_codigo_idx` (`alumno_codigo` ASC) VISIBLE,
INDEX `fk_imparticion_curso_codigo_idx` (`curso_codigo` ASC) VISIBLE,
CONSTRAINT `fk_imparticion_alumno_codigo`
  FOREIGN KEY (`alumno_codigo`)
  REFERENCES `mf0966_3`.`alumno` (`codigo`),
CONSTRAINT `fk_imparticion_curso_codigo`
  FOREIGN KEY (`curso_codigo`)
  REFERENCES `mf0966_3`.`curso` (`codigo`))
ENGINE = InnoDB
AUTO_INCREMENT = 51;
```

```
-- -----
-- Table `mf0966_3`.`alumno_has_resenyas`
-- -----
```

```
CREATE TABLE IF NOT EXISTS `mf0966_3`.`alumno_has_resenyas` (
  `alumno_codigo` INT NOT NULL,
  `curso_codigo` INT NOT NULL,
  `resenya` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`alumno_codigo`, `curso_codigo`),
  INDEX `fk_alumno_has_curso_curso1_idx` (`curso_codigo` ASC) VISIBLE,
  INDEX `fk_alumno_has_curso_alumno1_idx` (`alumno_codigo` ASC) VISIBLE,
  CONSTRAINT `fk_alumno_has_curso_alumno1`
    FOREIGN KEY (`alumno_codigo`)
    REFERENCES `mf0966_3`.`alumno` (`codigo`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `fk_alumno_has_curso_curso1`
    FOREIGN KEY (`curso_codigo`)
    REFERENCES `mf0966_3`.`curso` (`codigo`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
USE `mf0966_3` ;
```

```
-- -----
-- procedure alumnoCreate
-- -----
```

```
DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`admin`@`%` PROCEDURE `alumnoCreate`(IN `papellidos`
  VARCHAR(250), IN `pcodigopostal` INT(5), IN `pdireccion` VARCHAR(250), IN `pdni`
  VARCHAR(9), IN `pemail` VARCHAR(150), IN `pfNacimiento` DATE, IN `pnHermanos`
  INT(2), IN `pnombre` VARCHAR(50), IN `ppoblacion` VARCHAR(150), IN `ptelefono` INT(9),
  OUT `pcodigo` INT)
```

BEGIN

INSERT INTO

alumno(nombre,apellidos,dni,email,direccion,codigopostal,poblacion,fNacimiento,telefono,nHermanos)

VALUES(LOWER(pnombre),LOWER(papellidos),LOWER(pdni),LOWER(pemail),LOWER(pdireccion),pcodigopostal,LOWER(ppoblacion),pfNacimiento,ptelefono,pnHermanos);

SET pcodigo = LAST_INSERT_ID();

END\$\$

DELIMITER ;

-- -----
-- procedure alumnoDelete
-- -----

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`admin`@`%` PROCEDURE `alumnoDelete`(IN `pcodigo` INT)

NO SQL

BEGIN

DELETE FROM alumno WHERE codigo = pcodigo;

END\$\$

DELIMITER ;

-- -----
-- procedure alumnoInforme
-- -----

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`root`@`localhost` PROCEDURE `alumnoInforme`(IN `pcodigo` INT)

BEGIN

SELECT a.`codigo` as alumnocodigo, a.`nombre` as alumnonombre, a.`apellidos` as
alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as
alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, `nHermanos` as
alumnonhermanos, a.`activo` as alumnoactivo,

c.codigo as cursocodigo, c.nombre as cursonombre,

c.identificador as cursoidentificador, c.flnicio as cursofinicio, c.fFin as cursoffin, c.nHoras
as cursonhoras, c.precio as cursoprecio

/*, SUM(cd.precio) as preciocurso*/

FROM alumno as a

```
        LEFT JOIN imparticion as i ON i.alumno_codigo = a.codigo
        LEFT JOIN curso as c ON c.codigo = i.curso_codigo
    WHERE a.codigo = pcodigo;
END$$
```

```
DELIMITER ;
```

```
-- -----
-- procedure alumnoUpdate
-- -----
```

```
DELIMITER $$
```

```
USE `mf0966_3`$$
```

```
CREATE DEFINER=`admin`@`%` PROCEDURE `alumnoUpdate`(IN `papellidos`
VARCHAR(250), IN `pcodigo` INT, IN `pcodigopostal` INT(5), IN `pdireccion`
VARCHAR(250), IN `pdni` VARCHAR(9), IN `pemail` VARCHAR(150), IN `pfNacimiento`
DATE, IN `pnHermanos` INT(2), IN `pnombre` VARCHAR(150), IN `ppoblacion`
VARCHAR(150), IN `ptelefono` INT(9))
```

```
    NO SQL
```

```
BEGIN
```

```
    UPDATE alumno
```

```
    SET nombre = LOWER(pnombre),apellidos = LOWER(papellidos), dni =
```

```
    LOWER(pdni),email =
```

```
    LOWER(pemail),direccion=LOWER(pdireccion),codigopostal=pcodigopostal,poblacion=LO
```

```
    WER(ppoblacion),fNacimiento=pfNacimiento,telefono=ptelefono,nHermanos=pnHermanos
```

```
    WHERE codigo = pcodigo;
```

```
END$$
```

```
DELIMITER ;
```

```
-- -----
-- procedure alumnogetAll
-- -----
```

```
DELIMITER $$
```

```
USE `mf0966_3`$$
```

```
CREATE DEFINER=`admin`@`%` PROCEDURE `alumnogetAll`()
```

```
    NO SQL
```

```
BEGIN
```

```
        SELECT `codigo` as alumnocodigo, `nombre` as alumnonombre, `apellidos` as
alumnoapellidos, `fNacimiento` as alumnofnacimiento, `direccion` as alumnodireccion,
`poblacion` as alumnopoblacion, `codigopostal` as alumnocodigopostal, `telefono` as
alumnotelefono, `email` as alumnoemail, `dni` as alumnodni, `nHermanos` as
alumnonhermanos, `activo` as alumnoactivo
```

```
        FROM `alumno`
```

```
WHERE alumno.activo = true;
END$$
```

```
DELIMITER ;
```

```
-- -----
-- procedure alumnogetByCurso
-- -----
```

```
DELIMITER $$
```

```
USE `mf0966_3`$$
```

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `alumnogetByCurso`(IN
`pcursocodigo` INT)
BEGIN
```

```
    SELECT a.`codigo` as alumnocodigo, a.`nombre` as alumnonombre, a.`apellidos` as
alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as
alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, a.`nHermanos` as
alumnonhermanos, a.`activo` as alumnoactivo
```

```
    FROM `alumno` as a
```

```
        inner join imparticion as i ON i.alumno_codigo = a.codigo
```

```
        inner join curso as c ON i.curso_codigo = c.codigo
```

```
        WHERE c.codigo = pcursocodigo
```

```
    group by a.codigo;
```

```
END$$
```

```
DELIMITER ;
```

```
-- -----
-- procedure alumnogetByDni
-- -----
```

```
DELIMITER $$
```

```
USE `mf0966_3`$$
```

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `alumnogetByDni`(IN `pdni`
VARCHAR(9))
BEGIN
```

```
    SELECT `codigo` as alumnocodigo, `nombre` as alumnonombre, `apellidos` as
alumnoapellidos, `fNacimiento` as alumnofnacimiento, `direccion` as alumnodireccion,
`poblacion` as alumnopoblacion, `codigopostal` as alumnocodigopostal, `telefono` as
alumnotelefono, `email` as alumnoemail, `dni` as alumnodni, `nHermanos` as
alumnonhermanos, `activo` as alumnoactivo
```

```
    FROM `alumno`
```

```
        WHERE dni = pdni;
```

```
END$$
```

DELIMITER ;

```
-- -----  
-- procedure alumnogetById  
-- -----
```

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`admin`@`%` PROCEDURE `alumnogetById`(IN `pcodigo` INT)
NO SQL
BEGIN

SELECT `codigo` as alumnocodigo, `nombre` as alumnonombre, `apellidos` as
alumnoapellidos, `fNacimiento` as alumnofnacimiento, `direccion` as alumnodireccion,
`poblacion` as alumnopoblacion, `codigopostal` as alumnocodigopostal, `telefono` as
alumnotelefono, `email` as alumnoemail, `dni` as alumnodni, `nHermanos` as
alumnonhermanos, `activo` as alumnoactivo
FROM `alumno`
WHERE codigo = pcodigo;

END\$\$

DELIMITER ;

```
-- -----  
-- procedure clienteCreate  
-- -----
```

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`root`@`localhost` PROCEDURE `clienteCreate`(IN `pnombre` TEXT,
IN `pemail` VARCHAR(150), IN `ptelefono` INT, IN `pdireccion` VARCHAR(150), IN
`ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN `pidentificador` VARCHAR(50),
OUT `pcodigo` INT)

BEGIN

INSERT INTO cliente(`nombre`, `email`, `telefono`, `direccion`, `poblacion`, `codigopostal`,
`identificador`)

VALUES(LOWER(pnombre),

LOWER(pemail),

ptelefono,

LOWER(pdireccion),

LOWER(poblacion),

codigopostal,

LOWER(pidentificador));

SET pcodigo = LAST_INSERT_ID();

END\$\$

DELIMITER ;

```
-----  
-- procedure clienteInforme  
-----
```

```
DELIMITER $$  
USE `mf0966_3`$$  
CREATE DEFINER=`root`@`localhost` PROCEDURE `clienteInforme`(IN `pcodigo` INT)  
BEGIN  
SELECT c.`codigo` as clientecodigo, c.`nombre` as clientenombre, c.`email` as clienteemail,  
c.`telefono` as clientetelefono, c.`direccion` as clientedireccion, c.`poblacion` as  
clientepoblacion, `codigopostal` as clientecodigopostal, c.`identificador` as  
clienteidentificador, c.activo as clienteactivo, cu.codigo as cursocodigo, cu.nombre as  
cursonombre, cu.identificador as cursoidentificador, cu.flnicio as cursofinicio, cu.fFin as  
cursoffin, cu.nhoras as cursonhoras, cu.precio as cursoprecio FROM cliente as c LEFT JOIN  
curso as cu ON cu.cliente_codigo = c.codigo WHERE c.codigo = pcodigo;  
END$$
```

```
DELIMITER ;
```

```
-----  
-- procedure clienteUpdate  
-----
```

```
DELIMITER $$  
USE `mf0966_3`$$  
CREATE DEFINER=`root`@`localhost` PROCEDURE `clienteUpdate`(IN `pcodigo` INT, IN  
`pnombre` VARCHAR(150), IN `pemail` VARCHAR(150), IN `ptelefono` INT(9), IN  
`pdirecion` VARCHAR(250), IN `ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN  
`pidentificador` VARCHAR(15))  
BEGIN  
UPDATE `cliente`  
SET `codigo`=pcodigo,  
    `nombre`=pnombre,  
    `email`=pemail,  
    `telefono`=ptelefono,  
    `direccion`=pdirecion,  
    `poblacion`=ppoblacion,  
    `codigopostal`=pcodigopostal,  
    `identificador`=pidentificador;  
END$$
```

```
DELIMITER ;
```

```
-----  
-- procedure clientegetAll  
-----
```



```
DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`admin`@`%` PROCEDURE `clientegetAll`()
    NO SQL
    BEGIN
        SELECT `codigo` as clientecodigo, `nombre` as clientenombre, `email` as
        clienteemail, `telefono` as clientetelefono, `direccion` as clientedireccion, `poblacion` as
        clientepoblacion, `codigopostal` as clientecodigopostal, `identificador` as
        clienteidentificador, activo as clienteactivo
        FROM `cliente`
        WHERE cliente.activo = true;
    END$$
```

```
DELIMITER ;
```

```
-----
-- procedure clientegetById
-----
```

```
DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`root`@`localhost` PROCEDURE `clientegetById`(IN `pcodigo` INT)
    BEGIN
        SELECT `codigo` as clientecodigo, `nombre` as clientenombre, `email` as
        clienteemail, `telefono` as clientetelefono, `direccion` as clientedireccion, `poblacion` as
        clientepoblacion, `codigopostal` as clientecodigopostal, `identificador` as
        clienteidentificador, activo as clienteactivo
        FROM `cliente`
        WHERE codigo = pcodigo;
    END$$
```

```
DELIMITER ;
```

```
-----
-- procedure clientegetByIdentificador
-----
```

```
DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`root`@`localhost` PROCEDURE `clientegetByIdentificador`(IN
`pidentificador` VARCHAR(15))
    BEGIN
        SELECT `codigo` as clientecodigo, `nombre` as clientenombre, `email` as
        clienteemail, `telefono` as clientetelefono, `direccion` as clientedireccion, `poblacion` as
        clientepoblacion, `codigopostal` as clientecodigopostal, `identificador` as
        clienteidentificador, activo as clienteactivo
        FROM `cliente`
        WHERE identificador = pidentificador;
```

END\$\$

DELIMITER ;

```
-- -----  
-- procedure cursoDelete  
-- -----
```

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`admin`@`%` PROCEDURE `cursoDelete`(IN `pcodigo` INT)

NO SQL

BEGIN

UPDATE curso SET activo = false

WHERE codigo = pcodigo;

END\$\$

DELIMITER ;

```
-- -----  
-- procedure cursocreate  
-- -----
```

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`admin`@`%` PROCEDURE `cursocreate`(IN `pnombre`

VARCHAR(50), IN `pidentificador` VARCHAR(50), IN `pfinicio` DATE, IN `pffin` DATE, IN

`ptemario` VARCHAR(50), IN `pprecio` DOUBLE(8,2), IN `pcodigo_profesor` INT, IN

`pcodigo_cliente` INT, OUT `pcodigo` INT)

NO SQL

BEGIN

INSERT INTO

curso(nombre,identificador,fInicio,fFin,temario,precio,cliente_codigo,profesor_codigo)

VALUES(LOWER(pnombre),LOWER(pidentificador),pfinicio,pffin,LOWER(ptemario),pprecio,

pcodigo_profesor,pcodigo_cliente);

SET pcodigo = LAST_INSERT_ID();

END\$\$

DELIMITER ;

```
-- -----  
-- procedure cursogetAll  
-- -----
```

```
DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`admin`@`%` PROCEDURE `cursogetAll`()
    NO SQL
BEGIN
SELECT
    c.`codigo` as cursocodigo, c.`nombre` as cursonombre, c.`identificador` as
    cursoidentificador, c.`fInicio` as cursofinicio, c.`fFin` as cursoffin, c.`nHoras` as cursonhoras,
    c.`temario` as cursotemario, c.`activo` as cursoactivo, c.`precio` as cursoprecio,
    p.`codigo` as profesorcodigo, p.`NSS` as profesornss, p.`nombre` as profesornombre,
    p.`apellidos` as profesorapellidos, p.`fNacimiento` as profesornacimiento, p.`DNI` as
    profesordni, p.`direccion` as profesordireccion, p.`poblacion` as profesorpoblacion,
    p.`codigopostal` as profesorcodigopostal, p.`telefono` as profesortelefono, p.`email` as
    profesoremail,p.activo as profesoractivo, cli.codigo as clientecodigo, cli.`nombre` as
    clientenombre, cli.`email` as clienteemail, cli.`telefono` as clientetelefono, cli.identificador as
    clienteidentificador, cli.`direccion` as clientedireccion, cli.`poblacion` as clientepoblacion,
    cli.`codigopostal` as clientecodigopostal, cli.activo as clienteactivo
FROM curso c
    LEFT JOIN profesor p ON p.codigo = c.profesor_codigo
    LEFT JOIN cliente cli ON cli.codigo = c.cliente_codigo
WHERE c.activo = true;
```

```
END$$
```

```
DELIMITER ;
```

```
-- -----
-- procedure cursogetByld
-- -----
```

```
DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`admin`@`%` PROCEDURE `cursogetByld`(IN `pcodigo` INT)
    NO SQL
BEGIN
SELECT
    c.`codigo` as cursocodigo, c.`nombre` as cursonombre, c.`identificador` as
    cursoidentificador, c.`fInicio` as cursofinicio, c.`fFin` as cursoffin, c.`nHoras` as cursonhoras,
    c.`temario` as cursotemario, c.`activo` as cursoactivo, c.`precio` as cursoprecio,
    p.`codigo` as profesorcodigo, p.`NSS` as profesornss, p.`nombre` as profesornombre,
    p.`apellidos` as profesorapellidos, p.`fNacimiento` as profesornacimiento, p.`DNI` as
    profesordni, p.`direccion` as profesordireccion, p.`poblacion` as profesorpoblacion,
    p.`codigopostal` as profesorcodigopostal, p.`telefono` as profesortelefono, p.`email` as
    profesoremail,p.activo as profesoractivo, cli.codigo as clientecodigo, cli.`nombre` as
    clientenombre, cli.`email` as clienteemail, cli.`telefono` as clientetelefono, cli.identificador as
    clienteidentificador, cli.`direccion` as clientedireccion, cli.`poblacion` as clientepoblacion,
```

```

cli.`codigopostal` as clientecodigopostal, cli.activo as clienteactivo, i.codigo as
imparticioncodigo,
i.fMatriculacion as imparticionfmatriculacion,
a.`codigo` as alumnocodigo, a.`nombre` as alumnonombre, a.`apellidos` as
alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as
alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, a.`nHermanos` as
alumnonhermanos, a.`activo` as alumnoactivo

```

```

FROM curso c

```

```

INNER JOIN cliente cli ON cli.codigo = c.cliente_codigo

```

```

INNER JOIN profesor p ON p.codigo = c.profesor_codigo

```

```

INNER JOIN imparticion i on i.curso_codigo = c.codigo

```

```

INNER JOIN alumno a ON a.codigo = i.alumno_codigo

```

```

WHERE c.codigo = p.codigo;

```

```

END$$

```

```

DELIMITER ;

```

```

-- -----
-- procedure cursogetByIdentificador
-- -----

```

```

DELIMITER $$

```

```

USE `mf0966_3`$$

```

```

CREATE DEFINER=`admin`@`%` PROCEDURE `cursogetByIdentificador`(IN
`pidentificador` VARCHAR(50))

```

```

NO SQL

```

```

BEGIN

```

```

SELECT

```

```

c.`codigo` as cursocodigo, c.`nombre` as cursonombre, c.`identificador` as
cursoidentificador, c.`fInicio` as cursofinicio, c.`fFin` as cursoffin, c.`nHoras` as cursonhoras,
c.`temario` as cursotemario, c.`activo` as cursoactivo, c.`precio` as cursoprecio,
p.`codigo` as profesorcodigo, p.`NSS` as profesornss, p.`nombre` as profesornombre,
p.`apellidos` as profesorapellidos, p.`fNacimiento` as profesornacimiento, p.`DNI` as
profesordni, p.`direccion` as profesordireccion, p.`poblacion` as profesorpoblacion,
p.`codigopostal` as profesorcodigopostal, p.`telefono` as profesortelefono, p.`email` as
profesoremail, p.activo as profesoractivo, cli.codigo as clientecodigo, cli.`nombre` as
clientenombre, cli.`email` as clienteemail, cli.`telefono` as clientetelefono, cli.identificador as
clienteidentificador, cli.`direccion` as clientedireccion, cli.`poblacion` as clientepoblacion,
cli.`codigopostal` as clientecodigopostal, cli.activo as clienteactivo, i.codigo as
imparticioncodigo,
i.fMatriculacion as imparticionfmatriculacion,
a.`codigo` as alumnocodigo, a.`nombre` as alumnonombre, a.`apellidos` as
alumnoapellidos, a.`fNacimiento` as alumnofnacimiento, a.`direccion` as alumnodireccion,
a.`poblacion` as alumnopoblacion, a.`codigopostal` as alumnocodigopostal, a.`telefono` as
alumnotelefono, a.`email` as alumnoemail, a.`dni` as alumnodni, a.`nHermanos` as
alumnonhermanos, a.`activo` as alumnoactivo

```

```
        FROM curso c
        INNER JOIN cliente cli ON cli.codigo = c.cliente_codigo
        INNER JOIN profesor p ON p.codigo = c.profesor_codigo
        INNER JOIN imparticion i on i.curso_codigo = c.codigo
        INNER JOIN alumno a ON a.codigo = i.alumno_codigo
        WHERE c.identificador = pidentificador;

END$$

DELIMITER ;

-----
-- procedure cursoupdate
-----

DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`admin`@`%` PROCEDURE `cursoupdate`(IN `pcodigo` INT, IN
`pnombre` VARCHAR(50), IN `pidentificador` VARCHAR(50), IN `pfinicio` DATE, IN `pffin`
DATE, IN `pnhoras` INT, IN `ptemario` VARCHAR(50), IN `pprecio` DOUBLE(8,2), IN
`pcliente_codigo` INT, IN `pprofesor_codigo` INT)
    NO SQL
BEGIN

UPDATE curso SET nombre = pnombre, identificador = pidentificador, flnicio = pfinicio, fFin
= pffin, nHoras = phoras, temario = ptemario, precio = pprecio, cliente_codigo =
pcliente_codigo, profesor_codigo = pprofesor_codigo
WHERE codigo = pcodigo;

END$$

DELIMITER ;

-----
-- procedure profesorByDni
-----

DELIMITER $$
USE `mf0966_3`$$
CREATE DEFINER=`root`@`localhost` PROCEDURE `profesorByDni`(IN `dni`
VARCHAR(9))
BEGIN
    SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo
    FROM `profesor`
```

```
WHERE dni = pdni;
END$$
```

```
DELIMITER ;
```

```
-- -----
-- procedure profesorCreate
-- -----
```

```
DELIMITER $$
```

```
USE `mf0966_3`$$
```

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `profesorCreate`(IN `pnss`
VARCHAR(150), IN `pnombre` VARCHAR(150), IN `papellidos` VARCHAR(250), IN
`pfNacimiento` DATE, IN `pdni` VARCHAR(9), IN `pdireccion` VARCHAR(150), IN
`ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN `ptelefono` INT(9), IN `pemail`
VARCHAR(150), OUT `pcodigo` INT)
```

```
BEGIN
```

```
    INSERT INTO `profesor` (
```

```
        `nombre`,
```

```
        `apellidos`,
```

```
        `fNacimiento`,
```

```
        `DNI`,
```

```
        `direccion`,
```

```
        `poblacion`,
```

```
        `codigopostal`,
```

```
        `telefono`,
```

```
        `email`)
```

```
VALUES (
```

```
    LOWER(pnombre),
```

```
    LOWER(papellidos),
```

```
        pfNacimiento,
```

```
    LOWER(pdni),
```

```
    LOWER(pdireccion),
```

```
    LOWER(ppoblacion),
```

```
        pcodigopostal,
```

```
        ptelefono,
```

```
    LOWER(pemail)
```

```
);
```

```
SET pcodigo = LAST_INSERT_ID();
```

```
if pnss != " THEN
```

```
    update profesor set nss = pnss where codigo = pcodigo;
```

```
END IF;
```

```
END$$
```

```
DELIMITER ;
```

```
-- -----
-- procedure profesorUpdate
```

```
-----  
DELIMITER $$  
USE `mf0966_3`$$  
CREATE DEFINER=`root`@`localhost` PROCEDURE `profesorUpdate`(IN `pnss`  
VARCHAR(12), IN `pnombre` VARCHAR(150), IN `papellidos` VARCHAR(250), IN  
`pfNacimiento` DATE, IN `pdni` VARCHAR(9), IN `pdireccion` VARCHAR(250), IN  
`ppoblacion` VARCHAR(150), IN `pcodigopostal` INT(5), IN `ptelefono` INT(9), IN `pemail`  
VARCHAR(150))  
BEGIN  
  
UPDATE `profesor`  
SET `NSS`=pnss,  
    `nombre`=pnombre,  
    `apellidos`=papellidos,  
    `fNacimiento`=pfNacimiento,  
    `DNI`=pdni,  
    `direccion`=pdireccion,  
    `poblacion`=ppoblacion,  
    `codigopostal`=pcodigopostal,  
    `telefono`=ptelefono,  
    `email`=pemail  
WHERE codigo = pcodigo;
```

```
END$$
```

```
DELIMITER ;
```

```
-----  
-- procedure profesorgetAll  
-----
```

```
DELIMITER $$  
USE `mf0966_3`$$  
CREATE DEFINER=`admin`@`%` PROCEDURE `profesorgetAll`()  
    NO SQL  
BEGIN  
  
    SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as  
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesorfnacimiento,  
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,  
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as  
profesoremail, activo as profesoractivo  
    FROM `profesor`  
    WHERE profesor.activo = true;  
  
END$$
```

DELIMITER ;

```
-- -----  
-- procedure profesorGetByDni  
-- -----
```

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`root`@`localhost` PROCEDURE `profesorGetByDni`(IN `pdni`
VARCHAR(9))

BEGIN

SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo

FROM `profesor`

WHERE dni = pdni;

END\$\$

DELIMITER ;

```
-- -----  
-- procedure profesorGetById  
-- -----
```

DELIMITER \$\$

USE `mf0966_3`\$\$

CREATE DEFINER=`root`@`localhost` PROCEDURE `profesorGetById`(IN `pcodigo` INT)
BEGIN

SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesornacimiento,
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as
profesoremail, activo as profesoractivo

FROM `profesor`

WHERE codigo = pcodigo;

END\$\$

DELIMITER ;

```
-- -----  
-- procedure profesorGetByNss  
-- -----
```

DELIMITER \$\$

USE `mf0966_3`\$\$


```
CREATE DEFINER=`root`@`localhost` PROCEDURE `profesorgetByNss`(IN `pnss`  
VARCHAR(12))  
BEGIN  
    SELECT `codigo` as profesorcodigo, `NSS` as profesornss, `nombre` as  
profesornombre, `apellidos` as profesorapellidos, `fNacimiento` as profesorfnacimiento,  
`DNI` as profesordni, `direccion` as profesordireccion, `poblacion` as profesorpoblacion,  
`codigopostal` as profesorcodigopostal, `telefono` as profesortelefono, `email` as  
profesoremail, activo as profesoractivo  
    FROM `profesor`  
    WHERE nss = pnss;  
END$$
```

```
DELIMITER ;
```

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