데이터베이스 설계 레포트 4

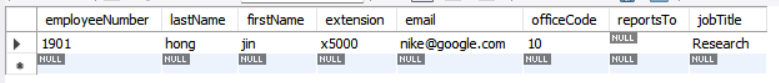
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학번: 2021136124

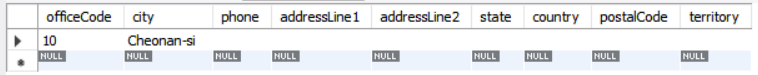
이름: 조병하

제출 날짜: 2023-3-30

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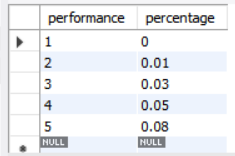
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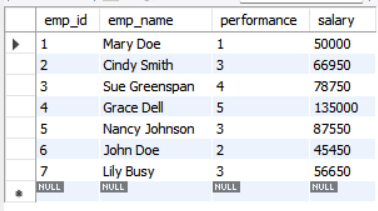
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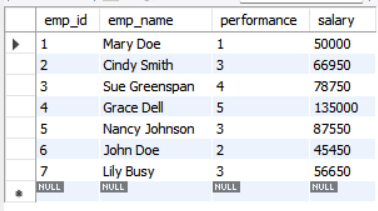
**<merit 테이블>**

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**<employees 테이블>**

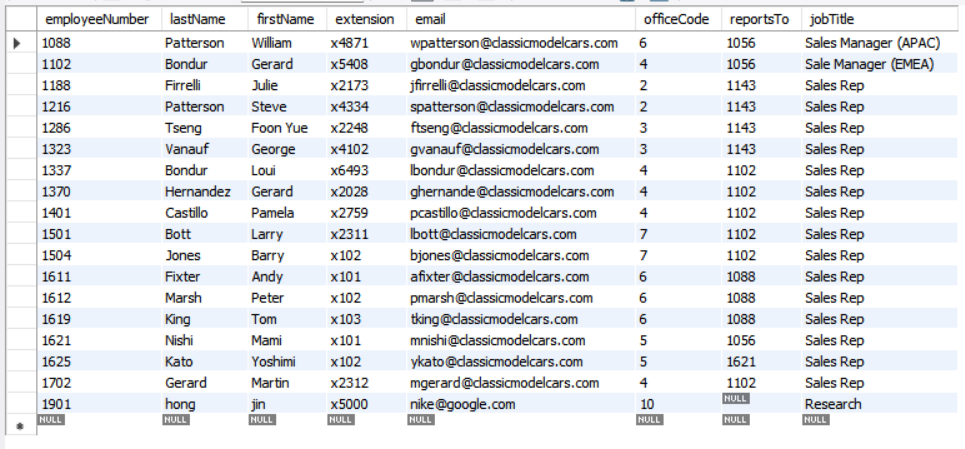
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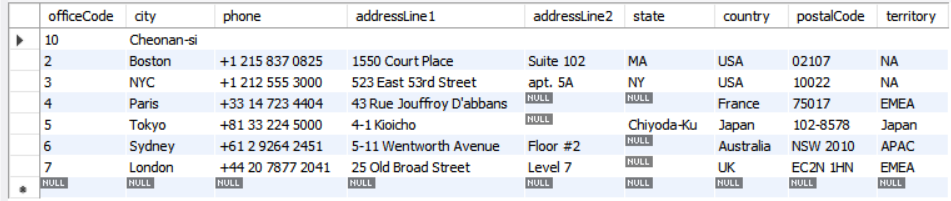
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**#5**

**<employees 테이블>**

****

**<office 테이블>**

****

**#6**

****

**#7**

**<rooms테이블 삭제 전>**

****

**<rooms테이블 삭제 후>**

****

**<코드 전문>**

**USE `classicmodels`;**

**# 1**

**SET foreign\_key\_checks = 0;**

**INSERT INTO employees(employeeNumber, lastName, firstName, extension, email, officeCode, reportsTo, jobTitle) VALUES(1901, "hong", "jin", "x5000", "nike@google.com", 10, null, "Research"); #1**

**SET foreign\_key\_checks = 1;**

**SELECT \* from `employees` where officeCode = 10;**

**# 2**

**INSERT INTO `offices` VALUES(10, "NYC", "", "", "", "", "", "", "");**

**UPDATE `offices` SET `city` = "Cheonan-si" where `officeCode` in (SELECT `officeCode` FROM `employees` where `jobTitle` = "Research");**

**SELECT \* FROM `offices` where `officeCode` in (SELECT `officeCode` FROM `employees` WHERE `jobTitle` = "Research");**

**# 3**

**DROP DATABASE `empdb`;**

**CREATE DATABASE IF NOT EXISTS `empdb`;**

**USE `empdb`;**

**CREATE TABLE IF NOT EXISTS `merit` (**

**`performance` INT(11) NOT NULL,**

**`percentage` FLOAT NOT NULL,**

**PRIMARY KEY(`performance`)**

**);**

**CREATE TABLE IF NOT EXISTS `employees`(**

**`emp\_id` INT(11) NOT NULL AUTO\_INCREMENT,**

**`emp\_name` VARCHAR(255) NOT NULL,**

**`performance` INT(11) DEFAULT NULL,**

**`salary` FLOAT DEFAULT NULL,**

**PRIMARY KEY(`emp\_id`),**

**CONSTRAINT `fk\_performance` FOREIGN KEY (`performance`) REFERENCES `merit`(`performance`)**

**);**

**INSERT INTO `merit` VALUES(1, 0);**

**INSERT INTO `merit` VALUES(2, 0.01);**

**INSERT INTO `merit` VALUES(3, 0.03);**

**INSERT INTO `merit` VALUES(4, 0.05);**

**INSERT INTO `merit` VALUES(5, 0.08);**

**SELECT \* FROM `merit`;**

**INSERT INTO `employees` VALUES(1, "Mary Doe", 1, 50000);**

**INSERT INTO `employees` VALUES(2, "Cindy Smith", 3, 65000);**

**INSERT INTO `employees` VALUES(3, "Sue Greenspan", 4, 75000);**

**INSERT INTO `employees` VALUES(4, "Grace Dell", 5, 125000);**

**INSERT INTO `employees` VALUES(5, "Nancy Johnson", 3, 85000);**

**INSERT INTO `employees` VALUES(6, "John Doe", 2, 45000);**

**INSERT INTO `employees` VALUES(7, "Lily Busy", 3, 55000);**

**SELECT \* FROM `employees`;**

**# 4**

**UPDATE `employees` JOIN `merit` SET `employees`.`salary` = `employees`.`salary` + `employees`.`salary` \* `merit`.`percentage` WHERE `merit`.`performance` = `employees`.`performance`;**

**SELECT \* FROM `employees`;**

**# 5**

**USE `classicmodels`;**

**SET foreign\_key\_checks = 0;**

**DELETE FROM `employees` WHERE `officeCode` = 1;**

**DELETE FROM `offices` WHERE `officeCode` = 1;**

**SET foreign\_key\_checks = 1;**

**SELECT \* FROM `employees`;**

**SELECT \* FROM `offices`;**

**# 6**

**USE `empdb`;**

**DELETE FROM `employees`;**

**SELECT \* FROM `employees`;**

**# 7**

**CREATE TABLE buildings(**

**`building\_no` INT(11) NOT NULL AUTO\_INCREMENT,**

**`building\_name` VARCHAR(255) NOT NULL,**

**`address` VARCHAR(355) NOT NULL,**

**PRIMARY KEY(`building\_no`)**

**);**

**INSERT INTO buildings(building\_name, address) VALUES("ACME Headquaters", "3950 North 1st Street CA 95134"), ("ACME Sales", "5000 North 1st Street CA 95134");**

**CREATE TABLE rooms(**

**room\_no INT(11) NOT NULL AUTO\_INCREMENT,**

**room\_name VARCHAR(255) NOT NULL,**

**building\_no INT(11) NOT NULL,**

**PRIMARY KEY (room\_no),**

**KEY building\_no(building\_no),**

**CONSTRAINT rooms\_ibfk\_1 FOREIGN KEY(building\_no) REFERENCES buildings (building\_no) ON DELETE CASCADE**

**);**

**INSERT INTO rooms(room\_name,building\_no) VALUES("Amazon",1), ("War Room",1), ("Office of CEO",1), ("Marketing", 2), ("Showroom",2);**

**SELECT \* FROM `rooms`;**

**DELETE FROM `buildings` WHERE `building\_no` = 2;**

**SELECT \* FROM `rooms`;**