# Module3 - Mini Project #1 - DEPARTMENT/EMPLOYEE DATABASE

#### STEP 1:

```
mysql> CREATE SCHEMA IF NOT EXISTS `mod3-miniproj1`
->;
Query OK, 1 row affected (0.01 sec)

mysql> CREATE TABLE `mod3-miniproj1`.`departments` ( `id` INT NOT NULL AUTO_INCREMENT, `name` VARCHAR(45) NOT NULL, PRIMARY KEY (`id`));
Query OK, 0 rows affected (0.03 sec)
```

#### STEP 2:

```
mysql> CREATE TABLE `mod3-miniproj1`.`employees` ( `id` INT NOT NULL AUTO_INCREMENT, `name` VARCHAR(45) NOT NULL, `departmentID` INT NOT
NULL, PRIMARY KEY (`id`), INDEX `departmentID_idx` (`departmentID` ASC) VISIBLE, CONSTRAINT `departmentID` FOREIGN KEY (`departmentID`
) REFERENCES `mini1`.`departments` (`id`) ON DELETE CASCADE ON UPDATE NO ACTION);
Query OK, 0 rows affected (0.04 sec)
```

### STEP 3:

```
mysql> INSERT INTO `mod3-miniproj1`.`departments` (`name`) VALUES ('Finance');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO `mod3-miniproj1`.`departments` (`name`) VALUES ('Marketing');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO `mod3-miniproj1`.`departments` (`name`) VALUES ('Technology');
Query OK, 1 row affected (0.00 sec)
```

## STEP 4:

```
mysql> ALTER TABLE `mod3-miniproj1`.`employees`
-> ADD COLUMN `salary` INT NOT NULL;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

### STEP 5:

// inserted more to show deletion of just one department first

```
mysql> INSERT INTO `mod3-miniproj1`.`employees` (`name`, `departmentID`, `salary`) VALUES ('Shirley Grave', '1', '100000');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO `mod3-miniproj1`.`employees` (`name`, `departmentID`, `salary`) VALUES ('Bobby Bob', '1', '200000');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO `mod3-miniproj1`.`employees` (`name`, `departmentID`, `salary`) VALUES ('Chris Jones', '1', '340000');
Query OK, 1 row affected (0.01 sec)
```

//now to delete all departments, the employee table should be empty after

```
mysql> DELETE FROM `mod3-miniproj1`.`departments` WHERE (`id` = '2');
Query OK, 1 row affected (0.01 sec)
mysql> DELETE FROM `mod3-miniproj1`.`departments` WHERE (`id` = '3');
Query OK, 1 row affected (0.01 sec)
```

### STEP 6:

```
mysql> SELECT * FROM `mod3-miniproj1`.departments;
Empty set (0.00 sec)
mysql> SELECT * FROM `mod3-miniproj1`.employees;
Empty set (0.00 sec)
```