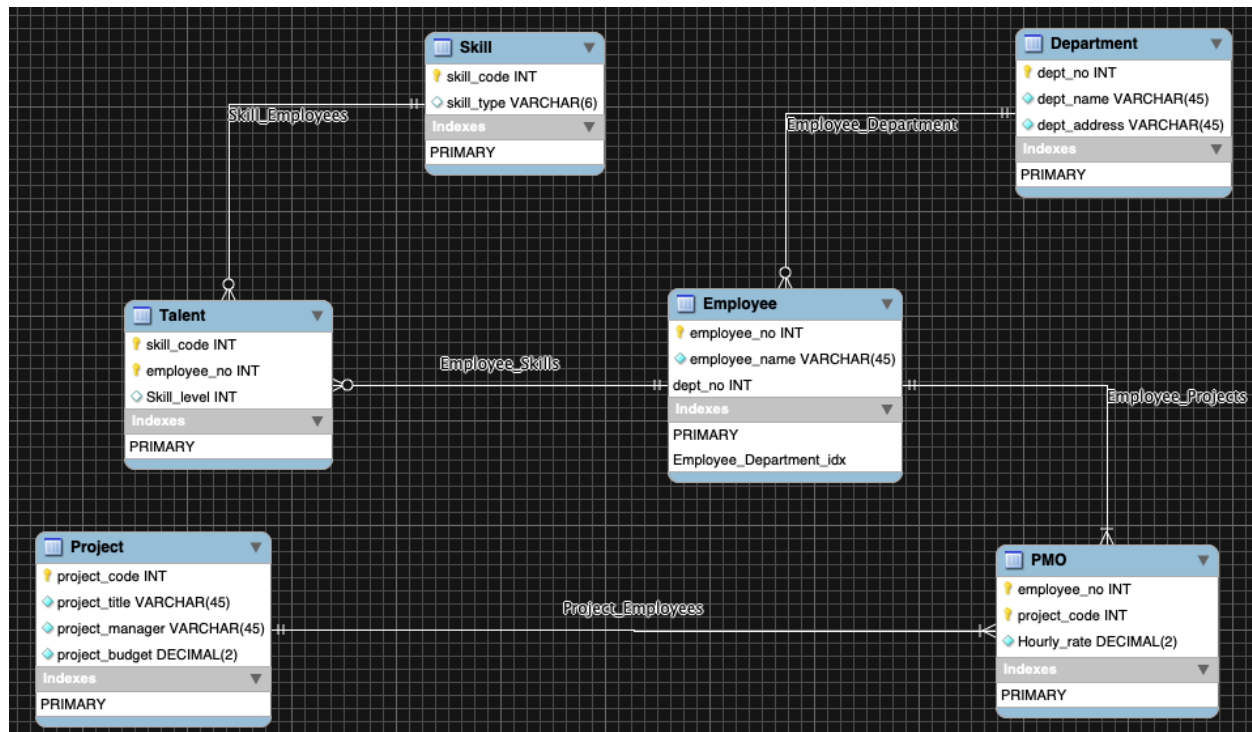


ERD



DDL-SQL Code

```
-- MySQL Script generated by MySQL Workbench
-- Sun Feb 19 19:00:09 2023
-- Model: New Model   Version: 1.0
-- 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_DA
TE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUT
ION';
```

```
-- Schema mydb
```

```
-- Schema mydb
```

```
-----  
CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8 ;  
USE `mydb` ;
```

```
-----  
-- Table `mydb`.`Department`  
-----
```

```
DROP TABLE IF EXISTS `mydb`.`Department` ;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`Department` (  
  `dept_no` INT NOT NULL,  
  `dept_name` VARCHAR(45) NOT NULL,  
  `dept_address` VARCHAR(45) NOT NULL,  
  PRIMARY KEY (`dept_no`))  
ENGINE = InnoDB;
```

```
-----  
-- Table `mydb`.`Employee`  
-----
```

```
DROP TABLE IF EXISTS `mydb`.`Employee` ;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`Employee` (  
  `employee_no` INT NOT NULL,  
  `employee_name` VARCHAR(45) NOT NULL,  
  `dept_no` INT NOT NULL,  
  PRIMARY KEY (`employee_no`, `dept_no`),  
  INDEX `Employee_Department_idx` (`dept_no` ASC) VISIBLE,  
  CONSTRAINT `Employee_Department`  
    FOREIGN KEY (`dept_no`)  
    REFERENCES `mydb`.`Department` (`dept_no`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
-----  
-- Table `mydb`.`Project`  
-----
```

```
DROP TABLE IF EXISTS `mydb`.`Project` ;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`Project` (  
  `project_code` INT NOT NULL,  
  `project_title` VARCHAR(45) NOT NULL,  
  `project_manager` VARCHAR(45) NOT NULL,  
  `project_budget` DECIMAL(2) NOT NULL,
```

```
PRIMARY KEY (`project_code`))  
ENGINE = InnoDB;
```

```
-- -----  
-- Table `mydb`.`Skill`  
-- -----
```

```
DROP TABLE IF EXISTS `mydb`.`Skill` ;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`Skill` (  
  `skill_code` INT NOT NULL,  
  `skill_type` VARCHAR(6) NULL,  
  PRIMARY KEY (`skill_code`))  
ENGINE = InnoDB;
```

```
-- -----  
-- Table `mydb`.`PMO`  
-- -----
```

```
DROP TABLE IF EXISTS `mydb`.`PMO` ;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`PMO` (  
  `employee_no` INT NOT NULL,  
  `project_code` INT NOT NULL,  
  `Hourly_rate` DECIMAL(2) NOT NULL,  
  PRIMARY KEY (`employee_no`, `project_code`),  
  CONSTRAINT `fk_Employee_has_Project_Employee`  
    FOREIGN KEY ()  
    REFERENCES `mydb`.`Employee` ()  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION,  
  CONSTRAINT `fk_Employee_has_Project_Project1`  
    FOREIGN KEY ()  
    REFERENCES `mydb`.`Project` ()  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
-- -----  
-- Table `mydb`.`Talent`  
-- -----
```

```
DROP TABLE IF EXISTS `mydb`.`Talent` ;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`Talent` (  
  `skill_code` INT NOT NULL,
```

```
`employee_no` INT NOT NULL,  
`Skill_level` INT NULL,  
PRIMARY KEY (`skill_code`, `employee_no`),  
CONSTRAINT `fk_Skill_has_Employee_Skill1`  
FOREIGN KEY ()  
REFERENCES `mydb`.`Skill` ()  
ON DELETE NO ACTION  
ON UPDATE NO ACTION,  
CONSTRAINT `fk_Skill_has_Employee_Employee1`  
FOREIGN KEY ()  
REFERENCES `mydb`.`Employee` ()  
ON DELETE NO ACTION  
ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

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