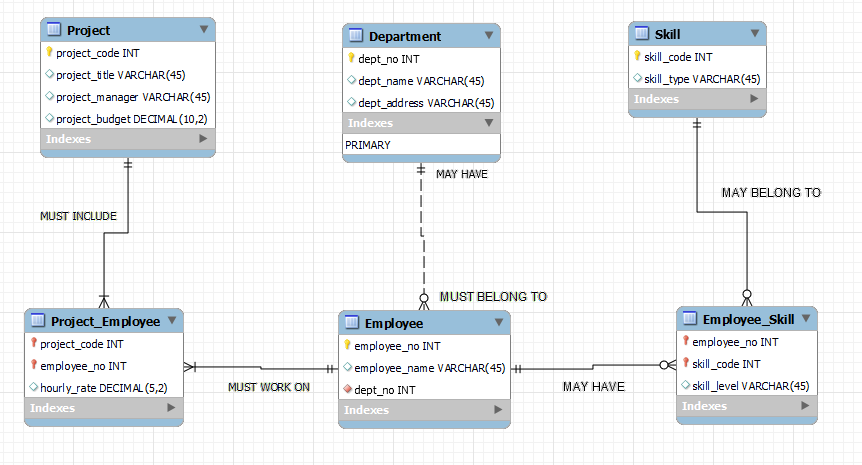
John Wilson

CSCI 3287-310 Database Systems

Homework 2 Data Modelling

Data Model:



DDL:

-- MySQL Script generated by MySQL Workbench

-- Thu Jun 16 11:41:26 2022

-- Model: John Wilson Homework 2 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\_DATE,NO\_ZERO\_DATE,ERROR\_FOR\_DIVISION\_BY\_ZERO,NO\_ENGINE\_SUBSTITUTION';

-- -----------------------------------------------------

-- Schema mydb

-- -----------------------------------------------------

DROP SCHEMA IF EXISTS `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) NULL,

`dept\_address` VARCHAR(45) 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) NULL,

`dept\_no` INT NOT NULL,

PRIMARY KEY (`employee\_no`),

INDEX `fk\_Employee\_Department1\_idx` (`dept\_no` ASC) VISIBLE,

CONSTRAINT `fk\_Employee\_Department1`

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) NULL,

`project\_manager` VARCHAR(45) NULL,

`project\_budget` DECIMAL(10,2) 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(45) NULL,

PRIMARY KEY (`skill\_code`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`table1`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`table1` ;

CREATE TABLE IF NOT EXISTS `mydb`.`table1` (

)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Project\_Employee`

-- -----------------------------------------------------

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

CREATE TABLE IF NOT EXISTS `mydb`.`Project\_Employee` (

`project\_code` INT NOT NULL,

`employee\_no` INT NOT NULL,

`hourly\_rate` DECIMAL(5,2) NULL,

PRIMARY KEY (`project\_code`, `employee\_no`),

INDEX `fk\_Project\_has\_Employee\_Employee1\_idx` (`employee\_no` ASC) VISIBLE,

INDEX `fk\_Project\_has\_Employee\_Project\_idx` (`project\_code` ASC) VISIBLE,

CONSTRAINT `fk\_Project\_has\_Employee\_Project`

FOREIGN KEY (`project\_code`)

REFERENCES `mydb`.`Project` (`project\_code`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Project\_has\_Employee\_Employee1`

FOREIGN KEY (`employee\_no`)

REFERENCES `mydb`.`Employee` (`employee\_no`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Employee\_Skill`

-- -----------------------------------------------------

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

CREATE TABLE IF NOT EXISTS `mydb`.`Employee\_Skill` (

`employee\_no` INT NOT NULL,

`skill\_code` INT NOT NULL,

`skill\_level` VARCHAR(45) NULL,

PRIMARY KEY (`employee\_no`, `skill\_code`),

INDEX `fk\_Employee\_has\_Skill\_Skill1\_idx` (`skill\_code` ASC) VISIBLE,

INDEX `fk\_Employee\_has\_Skill\_Employee1\_idx` (`employee\_no` ASC) VISIBLE,

CONSTRAINT `fk\_Employee\_has\_Skill\_Employee1`

FOREIGN KEY (`employee\_no`)

REFERENCES `mydb`.`Employee` (`employee\_no`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Employee\_has\_Skill\_Skill1`

FOREIGN KEY (`skill\_code`)

REFERENCES `mydb`.`Skill` (`skill\_code`)

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;