Jaryd Meek

CSCI 3287 – Database Systems

Shrestha

Homework 2

Diagram

Description automatically generated

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2 –

-- MySQL Script generated by MySQL Workbench

-- Sun Feb 13 22:55:47 2022

-- 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\_DATE,NO\_ZERO\_DATE,ERROR\_FOR\_DIVISION\_BY\_ZERO,NO\_ENGINE\_SUBSTITUTION';

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-- Schema mydb

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

USE `mydb` ;

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

-- Table `mydb`.`Department`

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

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

`dept\_id` INT NOT NULL,

`dept\_name` VARCHAR(45) NULL,

`dept\_address` VARCHAR(45) NULL,

PRIMARY KEY (`dept\_id`))

ENGINE = InnoDB;

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-- Table `mydb`.`Employee`

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

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

`employee\_id` INT NOT NULL,

`employee\_name` VARCHAR(45) NOT NULL,

`Department\_dept\_id` INT NOT NULL,

PRIMARY KEY (`employee\_id`, `Department\_dept\_id`),

CONSTRAINT `fk\_Employee\_Department`

FOREIGN KEY (`Department\_dept\_id`)

REFERENCES `mydb`.`Department` (`dept\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE INDEX `fk\_Employee\_Department\_idx` ON `mydb`.`Employee` (`Department\_dept\_id` ASC) VISIBLE;

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-- Table `mydb`.`Project`

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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,

`Employee\_employee\_id` INT NOT NULL,

`Employee\_Department\_dept\_id` INT NOT NULL,

PRIMARY KEY (`project\_code`, `Employee\_employee\_id`, `Employee\_Department\_dept\_id`))

ENGINE = InnoDB;

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

-- Table `mydb`.`Skill`

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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`.`Employee Project`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Employee Project` (

`Employee\_employee\_id` INT NOT NULL,

`Project\_project\_code` INT NOT NULL,

`Hourly\_rate` DECIMAL(10,2) NOT NULL,

PRIMARY KEY (`Employee\_employee\_id`, `Project\_project\_code`),

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

FOREIGN KEY (`Employee\_employee\_id`)

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

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Employee\_has\_Project\_Project1`

FOREIGN KEY (`Project\_project\_code`)

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

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE INDEX `fk\_Employee\_has\_Project\_Project1\_idx` ON `mydb`.`Employee Project` (`Project\_project\_code` ASC) VISIBLE;

CREATE INDEX `fk\_Employee\_has\_Project\_Employee1\_idx` ON `mydb`.`Employee Project` (`Employee\_employee\_id` ASC) VISIBLE;

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

-- Table `mydb`.`Employee Skill Level`

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

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

CREATE TABLE IF NOT EXISTS `mydb`.`Employee Skill Level` (

`Skill\_skill\_code` INT NOT NULL,

`Employee\_employee\_id` INT NOT NULL,

`Skill\_level` INT NULL,

PRIMARY KEY (`Skill\_skill\_code`, `Employee\_employee\_id`),

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

FOREIGN KEY (`Skill\_skill\_code`)

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

ON DELETE NO ACTION

ON UPDATE NO ACTION,

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

FOREIGN KEY (`Employee\_employee\_id`)

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

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE INDEX `fk\_Skill\_has\_Employee\_Employee1\_idx` ON `mydb`.`Employee Skill Level` (`Employee\_employee\_id` ASC) VISIBLE;

CREATE INDEX `fk\_Skill\_has\_Employee\_Skill1\_idx` ON `mydb`.`Employee Skill Level` (`Skill\_skill\_code` ASC) VISIBLE;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;