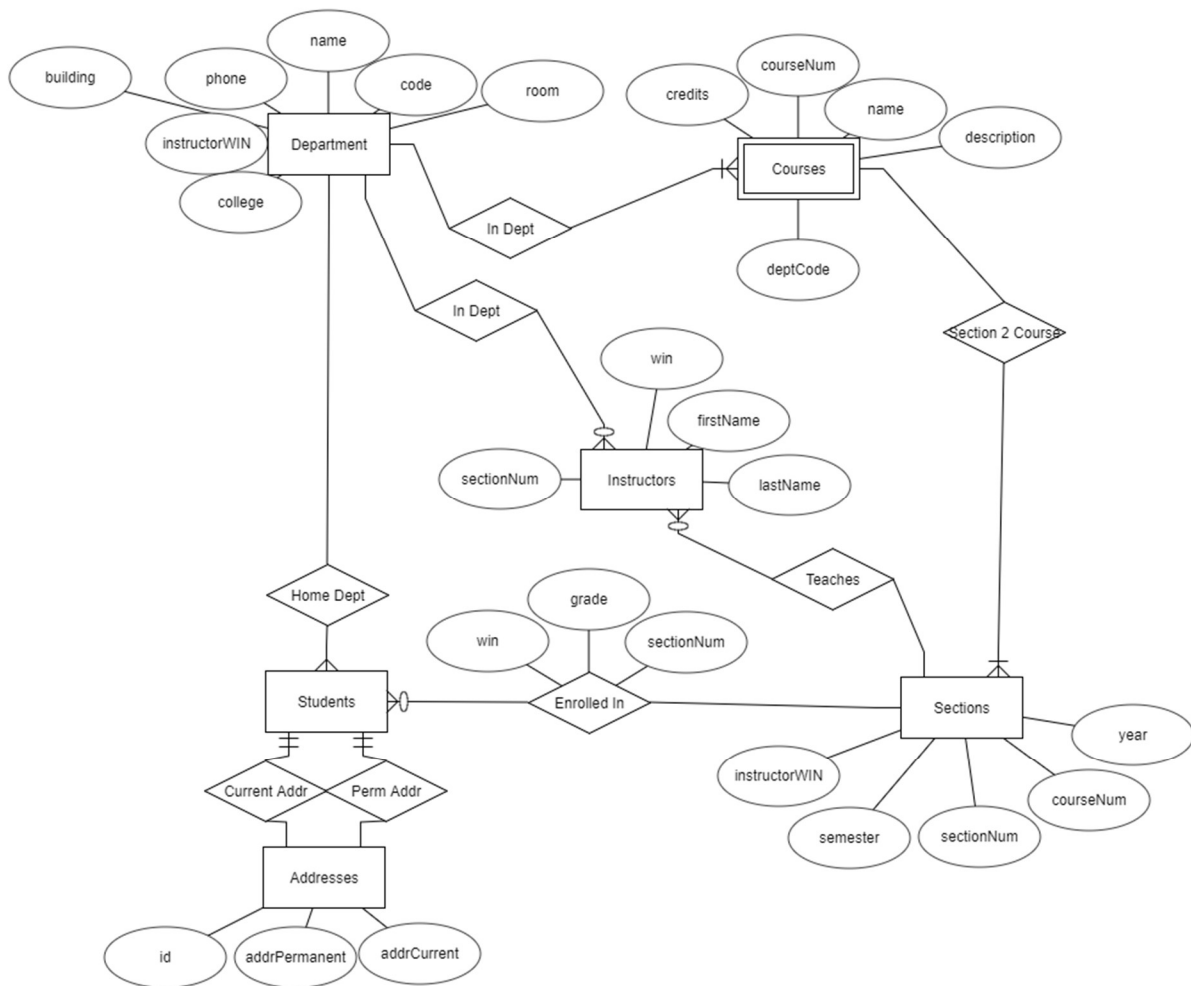


## Part 1

-----



```
CREATE TABLE `Departments` (
  `name`          varchar(25),
  `code`          char(4),
  `building`      varchar(10),
  `room`          varchar(6),
  `phone`         int(10),
  `college`       varchar(10),
  `instructorWIN` int(9),
```

```
PRIMARY KEY (`code`),  
KEY `FK_instructorWIN` (`instructorWIN`)  
);
```

```
CREATE TABLE `Courses` (  
  `courseNum`      varchar(10),  
  `name`           varchar(20),  
  `desc`           varchar(100),  
  `credits`        int(1),  
  `deptCode`       char(4),  
  PRIMARY KEY (`courseNum`),  
  CONSTRAINT `FK_courseDept` FOREIGN KEY (`deptCode`) REFERENCES `Departments` (`code`)  
);
```

```
CREATE TABLE `Sections` (  
  `instructorWIN` int(9),  
  `semester`      int(1),  
  `year`          int(4),  
  `courseNum`     varchar(10),  
  `sectionNum`   int(5),  
  PRIMARY KEY (`sectionNum`),  
  KEY `FK_instructorWIN` (`instructorWIN`)  
  CONSTRAINT `FK_courseNum` FOREIGN KEY (`courseNum`) REFERENCES Courses(`courseNum`)  
);
```

```
CREATE TABLE `Instructors` (  
  `win`           int(9),  
  `fName`         varchar(15),  
  `lName`         varchar(15),
```

```

`sectionNum`    int(5),

PRIMARY KEY (`win`),

CONSTRAINT `FK_winDept` FOREIGN KEY (`win`) REFERENCES `Departments` (`instructorWIN`),

CONSTRAINT `FK_sectionNum` FOREIGN KEY (`sectionNum`) REFERENCES `Sections` (`instructorWIN`)

);

```

```

CREATE TABLE `Students` (

`win`                int(9),

`fName`              varchar(15),

`lname`              varchar(15),

`phone`              int(10),

`birthday`           date DEFAULT NULL,

`sex`                char(1),

`level`              varchar(10),

`major`              int(4),                # This corresponds to Department code

`homeDept`           int(4),                # Also corresponds to Department code

PRIMARY KEY (`win`),

CONSTRAINT `FK_homeDept` FOREIGN KEY (`homeDept`) REFERENCES `Departments` (`code`)

);

```

```

CREATE TABLE `StudentAddress` (

`win`                int(9),

`curCity`            varchar(10),

`curState`           char(2),                # 2char state abbrev.

`curZIP`             int(9),

`permCity`           varchar(10),

`permState`          char(2),

`permZIP`            int(9),

PRIMARY KEY (`win`),

```

```
CONSTRAINT `FK_studentWIN` FOREIGN KEY (`win`) REFERENCES `Students`(`win`)  
);
```

```
CREATE TABLE `Enrolled` (  
  `win` int(9),  
  `sectionNum` int(5),  
  `grade` varchar(2),  
  PRIMARY KEY (`win`),  
  CONSTRAINT `FK_studentWIN` FOREIGN KEY (`win`) REFERENCES `Students` (`win`)  
);
```

## Part 2

-----

1

- a) B
- b) 2NF
- c) AC, BC, CD

2

- a) BD
- b) 1NF
- c) AD, BC, BD

3

- a) ABC, BCD
- b) 3NF
- c) Not possible

4

- a) A
- b) 2NF

c) BCD, ABC

5

a) AB, BC, CD, AD

b) 3NF

c) Not possible