Table: Person

person\_id, first\_name, last\_name, date\_of\_birth, gender, address, city, state, zip\_code

Table Section:

Subject, number section, title, credit\_hours, instructor\_id, days, start\_time, end\_time

Table Enrollment:

Subject, subject\_number, subject\_section, student\_id

student\_id in Enrolment entity is a foreign key that points back to person entity.

I believe that during term, one student (in person entity) can enrol in many courses (in enrolment entity), it is almost mandatory to register in atleast a required number of unit for student status, so the crow foot on Enrolment entity is not optional.

Being a weak entity, Section is a weak entity and therefore round outline

The (broken line) connector between Person table and Section table, and also between Person table and Enrollment table indicates a non-identifying relationship between the pairs of table as the primary keys in the Enrollment table and that of Section table are not part of the primary key in the Person table

CREATE TABLE Person

(

person\_id NUMBER NOT NULL,

first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

date\_of\_birth DATE,

gender VARCHAR2(7),

address VARCHAR(150),

city VARCHAR2(50),

state VARCHAR2(100),

zip\_code VARCHAR2(20),

CONSTRAINT Person\_PK PRIMARY KEY (Person\_id)

);

CREATE TABLE Section

(

Subject VARCHAR2(20)NOT NULL,

No NUMBER NOT NULL,

Section\_Number NUMBER NOT NULL,

Title VARCHAR2(100),

Credit\_hours NUMBER(2,1),

Instructor\_id NUMBER NOT NULL,

Days VARCHAR2(15),

Start\_time VARCHAR2(10),

End\_time VARCHAR2(10),

CONSTRAINT Section\_PK PRIMARY KEY (Subject, No, Section\_Number),

CONSTRAINT Person\_FK FOREIGN KEY (Instructor\_id) REFERENCES Person (Person\_id)

);

CREATE TABLE Enrollment

(

Subject VARCHAR2(20)NOT NULL,

No NUMBER NOT NULL,

Section\_Number NUMBER NOT NULL,

Student\_id NUMBER Not NULL,

CONSTRAINT Enrollment\_PK PRIMARY KEY (Subject, No, Section\_Number, Student\_id),

CONSTRAINT Section\_FK FOREIGN KEY (Subject, No, Section\_Number) REFERENCES Section (Subject, No, Section\_Number)

);