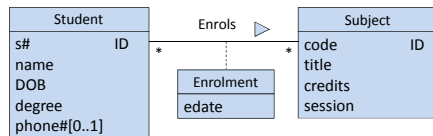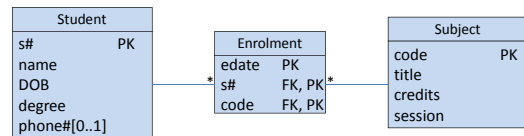# these are all steps

Transform UML to relational schemas

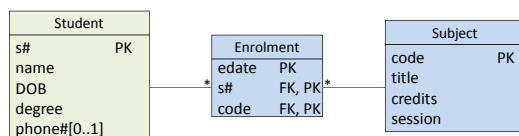## Transform UML to relational schemas

Transform UML to relational schemas

```
CREATE TABLE Student (
    s#              NUMBER(7),
    name            VARCHAR2(50)        NOT NULL,
    DOB             Date                NOT NULL,
    degree          VARCHAR2(100)       NOT NULL,
    phone#          NUMBER(10)          NULL,
    CONSTRAINT Student_pkey PRIMARY KEY (s#)
);
```
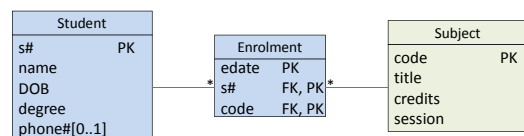
Transform UML to relational schemas

```
CREATE TABLE Subject (
    code            CHAR(7),
    title           VARCHAR2(200)       NOT NULL,
    credits         NUMBER(2)           NOT NULL,
    session         CHAR(10)            NOT NULL,
    CONSTRAINT Subject_pkey PRIMARY KEY (code),
    CONSTRAINT subject_check1 CHECK credits IN (6, 12, 24),
    CONSTRAINT subject_check2 CHECK session IN ('Autumn', 'Spring', 'Summer', 'Year')
);
```
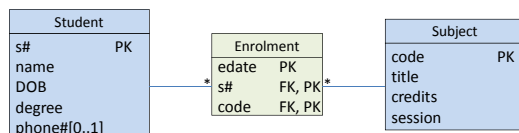
Transform UML to relational schemas

```
CREATE TABLE Enrolment (
    edate           Date,
    s#              NUMBER(7),
    code            CHAR(7),
    CONSTRAINT Enrolment_pkey PRIMARY KEY (s#, code, edate),
    CONSTRAINT Enrolment_fkey1 FOREIGN KEY (s#)
REFERENCES Student(s#),
    CONSTRAINT Enrolment_fkey2 FOREIGN KEY (code)
REFERENCES Subject(code));
```