```
set echo on
spool K:\lectures\lecture9\create.log
--drop tables
drop table students CASCADE CONSTRAINTS;
drop table teachers CASCADE CONSTRAINTS;
drop table tea cou CASCADE CONSTRAINTS;
--create tables
create table students
(studentid number (9,0) CONSTRAINT pk students PRIMARY KEY,
fname varchar2(20),
lname varchar2(20),
department varchar2(30),
year number (1,0),
email varchar2(30),
phone varchar2(20),
height number (3,0)
);
create table teachers
(teacherid number (9,0) CONSTRAINT pk teachers PRIMARY KEY,
fname varchar2(20),
lname varchar2(20),
email varchar2(30),
phone varchar2(20),
office varchar2(20),
hours varchar2(20)
);
create table courses
(courseid number(6,0) CONSTRAINT pk courses PRIMARY KEY,
coursenumber varchar2(20),
name varchar2(60),
description varchar2(200),
www varchar2(30),
courselevel varchar2(10),
credit number(2,0)
);
create table tea cou
teacherid number (9,0),
courseid number (6,0)
);
create table stu cou
studentid number (9,0),
courseid number (6,0)
);
```

```
--specify primary key (multi-column as primary key)
ALTER TABLE stu cou
       ADD CONSTRAINT pk stu cou PRIMARY KEY (studentid, courseid);
ALTER TABLE tea cou
       ADD CONSTRAINT pk tea cou PRIMARY KEY (teacherid, courseid);
--specify foreign key
ALTER TABLE tea cou
       ADD CONSTRAINT fk_teacherid
       FOREIGN KEY (teacherid)
       REFERENCES teachers (teacherid);
ALTER TABLE tea cou
       ADD CONSTRAINT fk tea courseid
       FOREIGN KEY (courseid)
       REFERENCES courses (courseid);
ALTER TABLE stu cou
       ADD CONSTRAINT fk studentid
       FOREIGN KEY (studentid)
       REFERENCES students (studentid);
ALTER TABLE stu cou
       ADD CONSTRAINT fk stu courseid
       FOREIGN KEY (courseid)
       REFERENCES courses (courseid);
commit;
spool off;
```