

A. CREATE TABLES:

>CREATE TABLE PROFESSOR(

PSsn	CHAR(9)	PRIMARY KEY,
PName	VARCHAR(20)	NOT NULL,
PTitle	VARCHAR(50)	NOT NULL,
PAddress	VARCHAR(100)	NOT NULL,
PPhone	CHAR(15)	NOT NULL,
Sex	ENUM('M', 'F')	NOT NULL,
Salary	DECIMAL(15,2)	

);

>CREATE TABLE DEPARTMENT(

DNumber	CHAR(10)	PRIMARY KEY,
DName	VARCHAR(20)	NOT NULL,
DPhone	CHAR(11)	NOT NULL,
OfficeLocation	VARCHAR(100)	NOT NULL,
ProSsn(Chairman)	CHAR(9)	NOT NULL,

FOREIGN KEY (ProSsn) REFERENCES PROFESSOR(PSsn)
ON DELETE RESTRICT ON UPDATE CASCADE
);

>CREATE TABLE STUDENT(

CWID	CHAR(9)	PRIMARY KEY,
FName	VARCHAR(20)	NOT NULL,
LName	VARCHAR(20)	NOT NULL,
Street	VARCHAR(20)	NOT NULL,
City	VARCHAR(10)	NOT NULL,
State	CHAR(2)	NOT NULL,
ZipCode	CHAR(5)	NOT NULL,

AreaCode	CHAR(3)	NOT NULL,
Digits	CHAR(7)	NOT NULL,
DepNo (Major)	CHAR(10)	NOT NULL,

```
FOREIGN KEY (DepNo) REFERENCES DEPARTMENT(DNumber)
ON DELETE RESTRICT ON UPDATE CASCADE
);
```

```
>CREATE TABLE COURSE(
```

CNumber	CHAR(7)	PRIMARY KEY,
CTitle	VARCHAR(30)	NOT NULL,
Textbook	VARCHAR(100)	NOT NULL,
Units	TINYINT	NOT NULL,
DeptNo (Offer)	CHAR(10)	NOT NULL,

```
FOREIGN KEY (DeptNo) REFERENCES DEPARTMENT(DNumber)
ON DELETE RESTRICT ON UPDATE CASCADE,
);
```

```
>CREATE TABLE SECTION(
```

CNumberSec	CHAR(7)	NOT NULL,
SNumber	CHAR(7)	NOT NULL,
Classroom	CHAR(7)	NOT NULL,
BeginningTime	VARCHAR(7)	NOT NULL,
EndingTime	VARCHAR(7)	NOT NULL,
Capacity	TINYINT	NOT NULL,
ProTeach(Lecturer)	CHAR(9)	NOT NULL,
PRIMARY KEY (CNumberSec, SNumber),		

```
FOREIGN KEY (CNumberSec) REFERENCES COURSE(CNumber)
ON DELETE RESTRICT ON UPDATE CASCADE,
```

```
FOREIGN KEY (ProTeach) REFERENCES PROFESSOR(PSsn)
ON DELETE RESTRICT ON UPDATE CASCADE
```

```
);
```

```
>CREATE TABLE ENROLL(
```

```
StuID CHAR(9) NOT NULL,
```

```
CoNumSe CHAR(7) NOT NULL,
```

```
SecNum CHAR(7) NOT NULL,
```

```
Grade CHAR(2) NOT NULL,
```

```
PRIMARY KEY (StuID, CoNumSe,SecNum),
```

```
FOREIGN KEY (StuID) REFERENCES STUDENT(CWID)
ON DELETE RESTRICT ON UPDATE CASCADE,
```

```
FOREIGN KEY (CoNumSe,SecNum) REFERENCES SECTION (CNumberSec,SNumber)
ON DELETE RESTRICT ON UPDATE CASCADE
```

```
);
```

```
>CREATE TABLE MEETING_DAY(
```

```
CoNoSec CHAR(7) NOT NULL,
```

```
SecNo CHAR(7) NOT NULL,
```

```
MeetingDay CHAR(4) NOT NULL,
```

```
PRIMARY KEY(CoNoSec, SecNo, MeetingDay),
```

```
FOREIGN KEY (CoNoSec, SecNo) REFERENCES SECTION (CNumberSec, SNumber)
ON DELETE RESTRICT ON UPDATE CASCADE
```

```
);
```

>CREATE TABLE PREREQUISITES

CourseNum CHAR(7) NOT NULL,

PRIMARY KEY (CourseNum),

FOREIGN KEY (CourseNum) REFERENCES COURSE(CNumber)

ON DELETE RESTRICT ON UPDATE CASCADE

);

>CREATE TABLE MINOR(

StuCWID CHAR(9) NOT NULL,

DeptNo CHAR(10) NOT NULL,

FOREIGN KEY (StuCWID) REFERENCES STUDENT(CWID)

ON DELETE RESTRICT ON UPDATE CASCADE,

FOREIGN KEY (DeptNo) REFERENCES DEPARTMENT(DNumber)

ON DELETE RESTRICT ON UPDATE CASCADE

);

>CREATE TABLE COLLEGE_DEGREE(

ProSsn CHAR(9) NOT NULL,

Degree VARCHAR(80) NOT NULL,

PRIMARY KEY(ProSsn, Degree),

FOREIGN KEY (ProSsn) REFERENCES PROFESSOR(PSsn)

ON DELETE RESTRICT ON UPDATE CASCADE

);

B. INSERT INTO TABLES:

1. 10 students

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("339471212", "Dat", "Hua", "202 South St", "Vancouver", "WA", "98660", "792", "2239810",
"1234567899" );
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("589271213", "Ti", "Michael", "9 Pond Rd", "Sparks", "NV", "89431", "792", "2236734",
"1234567889");
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("259471351", "Michael", "Le", "120 16th St", "Davenport", "IA", "52801", "592", "2232001",
"1234567889");
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("849481501", "Holiday", "Smith", "342 19th St", "Detroit", "MI", "48222", "381", "2232001",
"1234567899");
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("812431502", "Henry", "Simon", "2578 Cliff St", "Queens", "NY", "11427", "892", "2231890",
"1234567889");
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("849411305", "Henrik", "Williams", "178 Dover St", "Hollywood", "CA", "90078", "422",
"2239678", "1234567899");
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("981471506", "Na", "Brown", "672 High Plains", "Tucson", "AZ", "85701", "921", "2231115",
"1234567889");
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("239472556", "Buo", "Lee", "281 4th St", "Jacksonville", "NC", "28540", "792", "2238902",
"1234567899" );
```

```
>INSERT INTO STUDENT (CWID, FName, LName, Street, City, State, ZipCode, AreaCode, Digits, DepNo)
VALUES ("249471452",Dua", "Hau", "281 Von Cir", "Garden Grove", "CA", "92654", "714", "2256922",
"1234567899");
```

2. 3 professors

```
>INSERT INTO PROFESSOR (PSsn, PName, PTitle, PAddress, PPhone, Sex, Salary) VALUES("234561298",
"Michael Shafae", "Associate Professor & Department Chair", "14623 Harper St., Fullerton, CA 92834",
"(642) 468-3615", "M", 100000);
```

```
>INSERT INTO PROFESSOR (PSsn, PName, PTitle, PAddress, PPhone, Sex, Salary) VALUES ("233451292", "
Martin Bonsangue ", "Professor & Department Chair", "623 Martin St., Los Angeles , CA 90001", "(317)
258-1245", "M", 150000);
```

```
>INSERT INTO PROFESSOR (PSsn, PName, PTitle, PAddress, PPhone, Sex, Salary) VALUES ("231671212", "
Michael Teo ", "Professor", "623 Martin St., San Diego , CA 22434", "(117) 248-3245", "M", 90000);
```

3. 2 departments

```
>INSERT INTO DEPARTMENT(DNumber, DName, DPhone, OfficeLocation, ProSsn)
VALUES("1234567899", " Computer Science", "(657) 278-3700", "California State University, Fullerton,
800 N. State College Blvd., Fullerton, CA 92834", "234561298" );
```

```
>INSERT INTO DEPARTMENT(DNumber, DName, DPhone, OfficeLocation, ProSsn) VALUES
("1234567889", " Mathematics", "(657) 278-3631", "California State University, Fullerton, 800 N. State
College Blvd., Fullerton, CA 92834", "233451292" );
```

4. 4 courses

```
>INSERT INTO COURSE (CNumber, CTitle, Textbook, Units, DeptNo) VALUES("1213181", "Social and
Ethical Issues in C", "Technical Communication: A Practical Approach 8th Edition",3, "1234567899" );
```

```
>INSERT INTO COURSE (CNumber, CTitle, Textbook, Units, DeptNo) VALUES ("1213182", "Data Structure
Concepts", "Data Structures and Algorithms in C++ , Goodrich, Tamassia, and Mount, 2nd Ed., 2011",3,
"1234567899" );
```

>INSERT INTO COURSE (CNumber, CTitle, Textbook, Units, DeptNo) VALUES ("1213183", "Calculus I", "Calculus, Second Edition, Gilbert ",4, "1234567889");

>INSERT INTO COURSE (CNumber, CTitle, Textbook, Units, DeptNo) VALUES ("1213184", "Business Calculus", "Calculus & its Applications, 10th Ed, Bittinger, Ellenbogen, & Surgent", 3, "1234567889");

5. 8 sections

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213181", "1213221", "CS-101", 30, "231671212", "7:00AM", "9:00AM");

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213181", "1213245", "CS-201", 40, "234561298", "2:00PM", "3:30PM");

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213182", "1245122", "CS-300", 40, "231671212", "10:00AM", "11:30AM");

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213182", "1167122", "CS-402", 35, "234561298", "10:00AM", "11:30AM");

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213183", "1241883", "MH-100", 30, "233451292", "7:00AM", "9:00AM");

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213183", "1251983", "MH-200", 35, "231671212", "2:00PM", "3:30PM");

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213184", "1283494", "MH-420", 50, "233451292", "2:00PM", "3:45PM");

>INSERT INTO SECTION(CNumberSec, SNumber, Classroom, Capacity, ProTeach, BeginningTime, EndingTime) VALUES ("1213184", "1273524", "MH-310", 45, "231671212", "4:00PM", "6:30PM");

6. 25 enrollment records.

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES("339471212", "1213181",  
"1213221", "A-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("589271213", "1213181",  
"1213245", "A");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("681471403", "1213182",  
"1245122", "B");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("259471351", "1213181",  
"1213221", "B");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("849481501", "1213181",  
"1213221", "A-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("812431502", "1213181",  
"1213221", "C");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("849411305", "1213181",  
"1213221", "B-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("981471506", "1213184",  
"1283494", "A");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("239472556", "1213183",  
"1251983", "C");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("249471452", "1213181",  
"1213245", "C-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("339471212", "1213182",  
"1245122", "C");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("589271213", "1213184",  
"1273524", "C-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("681471403", "1213183",  
"1251983", "A-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("259471351", "1213182",  
"1167122", "C-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("849481501", "1213183",  
"1251983", "A");
```



```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("812431502", "1213182",  
"1245122", "C-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("849411305", "1213184",  
"1283494", "B");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("981471506", "1213182",  
"1167122", "A-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("239472556", "1213181",  
"1213221", "B+");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("249471452", "1213184",  
"1273524", "C");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("339471212", "1213183",  
"1241883", "A");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("589271213", "1213183",  
"1251983", "B");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("681471403", "1213184",  
"1273524", "A-");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("259471351", "1213184",  
"1283494", "B+");
```

```
>INSERT INTO ENROLL( StuID, CoNumSe, SecNum, Grade) VALUES ("849481501", "1213184",  
"1273524", "B");
```

7. Prerequisites

```
>INSERT INTO PREREQUISITES (CourseNum) VALUES ( '1213182');
```

8. Meeting days

```
> INSERT INTO MEETING_DAY (CoNoSec,SecNo,MeetingDay ) VALUES("1213181", "1213221", 'MoWe')  
("1213181", "1213245",'TuTh');
```

```
> INSERT INTO MEETING_DAY (CoNoSec,SecNo,MeetingDay ) VALUES ("1213182", "1245122",TuTh')  
("1213182", "1167122",'MoWeFr');
```

```
> INSERT INTO MEETING_DAY (CoNoSec,SecNo,MeetingDay ) VALUES ("1213183", "1241883", 'MoWe')  
("1213183", "1251983",TuTh');
```

```
> INSERT INTO MEETING_DAY (CoNoSec,SecNo,MeetingDay ) VALUES ("1213184", "1283494",TuTh')
("1213184", "1273524",'MoWe');
```

9. College degrees

```
>INSERT INTO COLLEGE_DEGREE (ProSsn,Degree ) VALUES("234561298", "Ph.D., University of California,
Irvine, California");
```

```
>INSERT INTO COLLEGE_DEGREE (ProSsn,Degree ) VALUES ("233451292", "Ph.D., Oregon State
University");
```

```
>INSERT INTO COLLEGE_DEGREE (ProSsn,Degree ) VALUES ("231671212", "Ph.D., University of
California, Berkeley");
```

10. Minor

```
>INSERT INTO MINOR (StuCWID, DeptNo ) VALUES("339471212","1234567889");
```

```
>INSERT INTO MINOR (StuCWID, DeptNo ) VALUES ("259471351", "1234567899");
```

```
>INSERT INTO MINOR (StuCWID, DeptNo ) VALUES ("239472556", "1234567889");
```

```
>INSERT INTO MINOR (StuCWID, DeptNo ) VALUES ("249471452", "1234567889");
```

```
>INSERT INTO MINOR (StuCWID, DeptNo ) VALUES ("849411305", "1234567889");
```