## A Database that stores Student, Course, Section, Grade Report, Prerequisite, Faculty

#### 1) Student:

create table student (Student\_Name varchar2(10), Student\_number int, Student\_Class int, Major varchar2(5))

insert into student values ('Smith',17,1,'CS');

insert into student values ('Brown',8,2,'CS');

select \* from student;

#### **Output:**

STUDENT_NAME	STUDENT_NUMBER	STUDENT_CLASS	MAJOR
Smith	17	1	CS
Brown	8	2	CS

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2 rows selected.

#### 2) Course:

create table course (Course\_name varchar2(30), Course\_number varchar2(10), Credit\_hours int, Department varchar2(5))

insert into course values ('Intro to Computer Science', 'CS1310',4,'CS');

insert into course values ('Data Structures', 'CS3320', 4, 'CS');

insert into course values ('Discrete Mathematics', 'MATH2410', 3, 'MATH');

insert into course values ('Database', 'CS3380', 3, 'CS');

select \* from course;

#### **Output:**

COURSE_NAME	COURSE_NUMBER	CREDIT_HOURS	DEPARTMENT
Intro to Computer Science	CS1310	4	CS
Data Structures	CS3320	4	CS
Discrete Mathematics	MATH2410	3	MATH
Database	CS3380	3	CS

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4 rows selected.

## 3)Section:

create table section (Section\_identifier int, Course\_number varchar2(10), Semester varchar2(10), Section\_Year int, Instructor varchar2(10))

insert into section values (85, 'MATH2410', 'Fall', 07, 'King');

insert into section values (92, 'CS1310', 'Fall', 07, 'Anderson');

insert into section values (102, 'CS3320', 'Spring', 08, 'Knuth');

insert into section values (112, 'MATH2410', 'Fall', 08, 'Chang');

insert into section values (119,'CS1310','Fall',08,'Anderson');

insert into section values (135, 'CS3380', 'Fall', 08, 'Stone');

select \* from section;

#### **Output:**

SECTION_IDENTIFIER	COURSE_NUMBER	SEMESTER	SECTION_YEAR	INSTRUCTOR
85	MATH2410	Fall	7	King
92	CS1310	Fall	7	Anderson
102	CS3320	Spring	8	Knuth
112	MATH2410	Fall	8	Chang
119	CS1310	Fall	8	Anderson
135	CS3380	Fall	8	Stone

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6 rows selected.

## 4)Grade Report:

```
create table grade_report (Student_number int,Section_identifier int,Grade varchar2(1)) insert into grade_report values (17,112,'B'); insert into grade_report values (17,119,'C'); insert into grade_report values (8,85,'A'); insert into grade_report values (8,92,'A'); insert into grade_report values (8,102,'B'); insert into grade_report values (8,135,'A'); select * from grade_report;
```

#### **Output:**

STUDENT_NUMBER	SECTION_IDENTIFIER	GRADE
17	112	В
17	119	С
8	85	Α
8	92	А
8	102	В
8	135	А

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6 rows selected.

## 5)Prerequisite

create table prerequisite (Course\_number varchar2(10),Prerequisite\_number varchar2(10)) insert into prerequisite values ('CS3380','CS3320'); insert into prerequisite values ('CS3380','MATH2410'); insert into prerequisite values ('CS3320','CS1310'); select \* from prerequisite;

## **Output:**

COURSE_NUMBER	PREREQUISITE_NUMBER
CS3380	CS3320
CS3380	MATH2410
CS3320	CS1310

# Download CSV 3 rows selected.

## 6) Faculty:

create table faculty (Faculty\_id int,Faculty\_name varchar2(10),Faculty\_position varchar2(30),Salary int)

insert into faculty values (1, 'King', 'Sr. Professor for MATH', 1800000);

insert into faculty values (2, 'Anderson', 'Sr. Professor for CS', 1900000);

insert into faculty values (3, 'Knuth', 'Asst Sr. Professor for CS', 1700000);

insert into faculty values (4, 'Chang', 'Asst Sr. Professor for MATH', 1600000);

insert into faculty values (5, 'Stone', 'Jr. Professor for CS', 1500000);

select \* from faculty;

FACULTY_ID	FACULTY_NAME	FACULTY_POSITION	SALARY
1	King	Sr.Professor for MATH	1800000
2	Anderson	Sr.Professor for CS	1900000
3	Knuth	Asst Sr.Professor for CS	1700000
4	Chang	Asst Sr.Professor for MATH	1600000
5	Stone	Jr.Professor for CS	1500000

## Download CSV

5 rows selected.

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