

Student	Name	Student_Id (PK)	Class	Major
	Smith	17	2	CS
	Brown	8	2	CS

Course	CourseName	Course_Id (PK)	CreditHours	Department
	Intro to Computer Science	CS1310	4	CS
	Database	CS3380	4	CS
	Discrete Mathematics	MATH2410	3	MATH
	Data Structures	CS3320	3	CS

Section	SectionIdentifier	Course_Id	Semester	Year	Instructor
	85	MATH2410	Fall	98	King
	92	CS1310	Fall	98	Anderson
	102	CS3320	Spring	99	Knuth
	112	MATH2410	Fall	99	Chang
	119	CS1310	Fall	99	Anderson
	135	CS3380	Fall	99	Stone

Grade_Report	Student_Id	SectionIdentifier	Grade
	17	112	B
	17	119	C
	8	85	A
	8	92	A
	8	102	B
	8	135	A

Prerequisite	Course_Id	Prerequisite_Id
	CS3380	CS3320
	CS3380	MATH2410
	CS3320	CS1310

Figure 1. A Database that stores student and course information

1. Consider the tables shown in Figure 1;

a. **Populate (INSERT) the database with sample data from figure 1.**

b. **Change a Class of Student, “Smith to 2”**

Student	Name	Student_Id (PK)	Class	Major
	Smith	17	2	CS
	Brown	8	2	CS

Course	CourseName	Course_Id (PK)	CreditHours	Department
	Intro to Computer Science	CS1310	4	CS
	Database	CS3380	4	CS
	Discrete Mathematics	MATH2410	3	MATH
	Data Structures	CS3320	3	CS

Section	SectionIdentifier	Course_Id	Semester	Year	Instructor
	85	MATH2410	Fall	98	King
	92	CS1310	Fall	98	Anderson
	102	CS3320	Spring	99	Knuth
	112	MATH2410	Fall	99	Chang
	119	CS1310	Fall	99	Anderson
	135	CS3380	Fall	99	Stone

Grade Report	Student Id	SectionIdentifier	Grade
	17	112	B
	17	119	C
	8	85	A
	8	92	A
	8	102	B
	8	135	A

Prerequisite	Course_Id	Prerequisite_Id
	CS3380	CS3320
	CS3380	MATH2410
	CS3320	CS1310

c. Delete the record for the student whose name is “Smith” and whose student number is “17”.

Student	Name	Student_Id (PK)	Class	Major
	Smith	17		
	Brown	8	2	CS

Course	CourseName	Course_Id (PK)	CreditHours	Department
	Intro to Computer Science	CS1310	4	CS
	Database	CS3380	4	CS
	Discrete Mathematics	MATH2410	3	MATH
	Data Structures	CS3320	3	CS

Section	SectionIdentifier	Course_Id	Semester	Year	Instructor
	85	MATH2410	Fall	98	King
	92	CS1310	Fall	98	Anderson

	102	CS3320	Spring	99	Knuth
	112	MATH2410	Fall	99	Chang
	119	CS1310	Fall	99	Anderson
	135	CS3380	Fall	99	Stone

Grade_Report	Student_Id	SectionIdentifier	Grade
	17		
	17		
	8	85	A
	8	92	A
	8	102	B
	8	135	A

Prerequisite	Course Id	Prerequisite Id
	CS3380	CS3320
	CS3380	MATH2410
	CS3320	CS1310

d. Change all "Student Id" = "17" to "77"

Student	Name	Student_Id (PK)	Class	Major
	Smith	77	2	CS
	Brown	8	2	CS

Course	CourseName	Course_Id (PK)	CreditHours	Department
	Intro to Computer Science	CS1310	4	CS
	Database	CS3380	4	CS
	Discrete Mathematics	MATH2410	3	MATH
	Data Structures	CS3320	3	CS

Section	SectionIdentifier	Course Id	Semester	Year	Instructor
	85	MATH2410	Fall	98	King
	92	CS1310	Fall	98	Anderson
	102	CS3320	Spring	99	Knuth
	112	MATH2410	Fall	99	Chang
	119	CS1310	Fall	99	Anderson
	135	CS3380	Fall	99	Stone

Grade_Report	Student_Id	SectionIdentifier	Grade
	77	112	B
	77	119	C
	8	85	A
	8	92	A
	8	102	B

	8	135	A
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Prerequisite	Course Id	Prerequisite Id
	CS3380	CS3320
	CS3380	MATH2410
	CS3320	CS1310

e. Remove all record for “Student Id” = “8”

Student	Name	Student_Id (PK)	Class	Major
	Smith	17	2	CS
	Brown	8		

Course	CourseName	Course Id (PK)	CreditHours	Department
	Intro to Computer Science	CS1310	4	CS
	Database	CS3380	4	CS
	Discrate Mathematics	MATH2410	3	MATH
	Data Structures	CS3320	3	CS

Section	SectionIdentifier	Course_Id	Semester	Year	Instructor
	85	MATH2410	Fall	98	King
	92	CS1310	Fall	98	Anderson
	102	CS3320	Spring	99	Knuth
	112	MATH2410	Fall	99	Chang
	119	CS1310	Fall	99	Anderson
	135	CS3380	Fall	99	Stone

Grade_Report	Student_Id	SectionIdentifier	Grade
	17	112	B
	17	119	C
	8		
	8		
	8		
	8		

Prerequisite	Course Id	Prerequisite Id
	CS3380	CS3320
	CS3380	MATH2410
	CS3320	CS1310

f. Cancel all transaction

Student	Name	Student_Id (PK)	Class	Major
	Smith	17	2	CS
	Brown	8	2	CS

Course	CourseName	Course_Id (PK)	CreditHours	Department
	Intro to Computer Science	CS1310	4	CS
	Database	CS3380	4	CS
	Discrete Mathematics	MATH2410	3	MATH
	Data Structures	CS3320	3	CS

Section	SectionIdentifier	Course Id	Semester	Year	Instructor
	85	MATH2410	Fall	98	King
	92	CS1310	Fall	98	Anderson
	102	CS3320	Spring	99	Knuth
	112	MATH2410	Fall	99	Chang
	119	CS1310	Fall	99	Anderson
	135	CS3380	Fall	99	Stone

Grade_Report	Student_Id	SectionIdentifier	Grade
	17	112	B
	17	119	C
	8	85	A
	8	92	A
	8	102	B
	8	135	A

Prerequisite	Course_Id	Prerequisite_Id
	CS3380	CS3320
	CS3380	MATH2410
	CS3320	CS1310