

DML Insert Update Delete Exercises

1. Using the ERD below, write the SQL code for the tables shown:

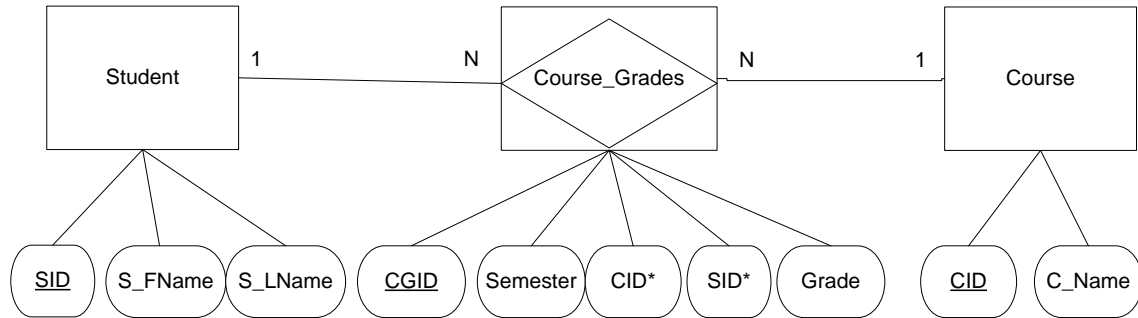


Table Name: Student

Column Name:	SID	S_FName	S_LName	
Key Type:	PK			
Null/Unique:	NN, U	NN	NN	
FK Table:				
FK Column:				
Datatype:	INTEGER	VARCHAR	VARCHAR	
Max Length:	5	20	30	

Table Name: Course

Column Name:	CID	C_Name		
Key Type:	PK			
Null/Unique:	NN	NN		
FK Table:				
FK Column:				
Datatype:	INTEGER	VARCHAR		
Max Length:	6	30		

Table Name: Course_Grades

Column Name:	CGID	Semester	CID	SID	Grade
Key Type:	PK		FK	FK	
Null/Unique:	NN, U	NN	NN	NN	NN
FK Table:					
FK Column:					
Datatype:	INTEGER	CHAR	INTEGER	INTEGER	CHAR
Max Length:	7	4	6	5	2

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2. Write the SQL to insert the following data into the respective tables:

Table: Student					
SID	S_FName	S_LName			
12345	Chris	Rock			
23456	Chris	Farley			
34567	David	Spade			
45678	Liz	Lemon			
56789	Jack	Donaghy			
Table: Course_Grades					
CGID	Semester	CID	SID	Grade	
2010101	SP10	101005	34567	D+	
2010308	FA10	101005	34567	A-	
2010309	FA10	101001	45678	B+	
2011308	FA11	101003	23456	B-	
2012206	SU12	101002	56789	A+	
Table: Course					
CID	C_Name				
101001	Intro to Computers				
101002	Programming				
101003	Databases				
101004	Websites				
101005	IS Management				

Write the SQL code to:

- In the Student table, change the maximum length for Student first names to be 30 characters long.
- In the Course table, add a column called "Faculty_LName" where the Faculty last name can vary up to 30 characters long. This column cannot be null and the default value should be "TBD".
- In the Course table, update CID 101001 where Faculty_LName is "Potter" and C_Name is "Intro to Wizardry".
- In the Course table, change the column name "C_Name" to be "Course_Name".
- Delete the "Websites" class from the Course table.
- Remove the Student table from the database.
- Remove all the data from the Course table, but retain the table structure.
- Remove the foreign key constraints from CID and SID columns in the Course_Grades table.