

Assignment 02

Notes:

Watch SQL SERVER 2017 TUTORIAL 8: Constraints Video

This part of the case study addresses adding constraints to the City Jail database constructed earlier. You need to reference the E-R model solution from last week and the database descriptions to determine all the constraints required.

Requirements:

- ◆ Constraint naming: All constraints except NOT NULL constraints should be assigned a name.
- ◆ Foreign key columns: No NULL values should be allowed in FK columns except the Prob_ID column of the Sentences table because sentences aren't always probation. If the sentence is not probation, the Prob_ID column is NULL.

Writing commands to do the following:

- ◆ First, drop the APPEALS, CRIME_OFFICERS, and CRIME_CHARGES tables. These three tables are to be built last, using a CREATE TABLE command that includes all the necessary constraints.
- ◆ Second, use the ALTER TABLE command to add all constraints to the existing tables. Note that the sequence of constraint addition has an impact. Any tables referenced by FOREIGN KEYs must already have the PRIMARY KEY created.
- ◆ Third, use the CREATE TABLE command to build the three tables dropped in the first step.

Constraint list:

Table	Column	Constraint type	Condition
Aliases	Alias_ID	PRIMARY KEY	
	Criminal_ID	FOREIGN KEY	Ref Criminals table
	Criminal_ID	NOT NULL	
Criminals	Criminal_ID	PRIMARY KEY	
	V_status	CHECK	IN ('Y','N')
	P_status	CHECK	IN ('Y','N')
Crimes	Crime_ID	PRIMARY KEY	
	Criminal_ID	FOREIGN KEY	Ref Criminals table
	Criminal_ID	NOT NULL	
	Classification	CHECK	IN ('F','M','O','U')
	Status	CHECK	IN ('CL','CA','IA')
Sentences	Sentence_ID	PRIMARY KEY	
	Criminal_ID	FOREIGN KEY	Ref Criminals table
	Criminal_ID	NOT NULL	
	Prob_ID	FOREIGN KEY	Ref Prob_Officers table
	Prob_ID	NOT NULL	
	Type	CHECK	IN ('J','H','P')
Prob_officers	Prob_ID	PRIMARY KEY	
	Status	CHECK	IN ('A','I')
Crime_charges	Charge_ID	PRIMARY KEY	
	Crime_ID	FOREIGN KEY	Ref Crimes Table
	Crime_ID	NOT NULL	
	Crime_code	FOREIGN KEY	Ref Crime_codes table
	Crime_code	NOT NULL	
	Charge_status	CHECK	IN('PD','GL','NG')
Crime_officers	Crime_ID and Officer_ID	PRIMARY KEY	

	Crime_ID	FOREIGN KEY	Ref Crimes table
	Officer_ID	FOREIGN KEY	Ref Officers table
Officers	Officer_ID	PRIMARY KEY	
	Status	CHECK	IN ('A','I')
Appeals	Appeal_ID	PRIMARY KEY	
	Crime_ID	FOREIGN KEY	Ref Crimes table
	Crime_ID	NOT NULL	
	Status	CHECK	IN ('P','A','D')
Crime_codes	Crime_code	PRIMARY KEY	

Place your Queries Here