

## Exercises week 4. Constraints

		<b>Results</b>	<b>Explanation</b>
1	<pre>CREATE TABLE Students (     sin VARCHAR(10) PRIMARY KEY,     name VARCHAR(20),     address VARCHAR(20) );</pre>		
	<pre>INSERT INTO Students VALUES ('0602751127','Ethan Longwinder','My Way 2');</pre>		
	<pre>INSERT INTO Students VALUES ('0602751127','Ethan Longwinder II','My Way 2');</pre>		
	<pre>INSERT INTO Students VALUES (NULL,'Mysterio Student','No Way 8');</pre>		
	<pre>DROP TABLE Students;</pre>		
2	<pre>CREATE TABLE Students (     sin VARCHAR(10) PRIMARY KEY,     name VARCHAR(30) NOT NULL,     address VARCHAR(20),     CONSTRAINT my_constraint     UNIQUE (name,address) );</pre>		

<pre>INSERT INTO Students  VALUES ('0602751127','Ethan Longwinder','My Way 2');</pre>		
<pre>INSERT INTO Students  VALUES ('0602751129','Ethan Longwinder','My Way 2');</pre>		
<pre>INSERT INTO Students  VALUES ('2103780002','H. Omeless',NULL);</pre>		
<pre>INSERT INTO Students  VALUES ('0602751129 ','H. Omeless',NULL);</pre>		
<pre>INSERT INTO Students VALUES ( '0602751129','Ethan Longwinder','My Way 4');</pre>		
<pre>UPDATE Students SET address = 'Urban Collective';</pre>		
<pre>DROP TABLE Students;</pre>		

3	<pre>CREATE TABLE UTORpeople (     sin VARCHAR(10) PRIMARY KEY,     name VARCHAR(30) NOT NULL,     address VARCHAR(20) );</pre>		
	<pre>CREATE TABLE Students (     sin VARCHAR(10) PRIMARY KEY     CONSTRAINT ValidSIN REFERENCES     UTORpeople(sin),     enrolled VARCHAR(10),     graduated VARCHAR(10),     gpa REAL CHECK (gpa&gt;=6 AND gpa&lt;=13),     CONSTRAINT PositiveStudyTime CHECK     (enrolled &lt; graduated) );</pre>		
	<pre>INSERT INTO UTORpeople VALUES ('0602751129','Bullie Bank', 'Goa Way 10');</pre>		
	<pre>INSERT INTO Students VALUES ('0602751129','2003-08-01',NULL,NULL);</pre>		

	UPDATE Students SET graduated = '2001-02-28' WHERE sin='0602751129';		
	DELETE FROM UTORpeople WHERE sin='0602751129';		
	ALTER TABLE Students DROP CONSTRAINT Validsin;		
	ALTER TABLE Students ADD CONSTRAINT Validsin FOREIGN KEY (sin) REFERENCES UTORpeople(sin) ON DELETE CASCADE;		
	DELETE FROM UTORpeople WHERE sin='0602751129';		
	DROP TABLE Students;		
	DROP TABLE UTORpeople;		