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Due: 2/09/21 @11:30PM
CECS323 Section 6

Lab: Keys

SQL	My guess	Actual result
CREATE TABLE customers (first_name VARCHAR(20) NOT NULL, last_name VARCHAR(20) NOT NULL, phone VARCHAR(20) NOT NULL, street VARCHAR(50), zipcode VARCHAR(5));	I think it will make a table called Customers.	[1:2] Executed successfully in 0.027 s. no rows affected. [3:1] Executed successfully in 0.028 s. 1 row affected. Execution finished after 0.23 s, no errors occurred.
insert into customers (first_name, last_name, phone, street, zipcode) values ('Tom', 'Jewett', '562-555-1122', '123 Mockingbird Lane', '90210');	We think that this will insert data into our Customer's table that we made.	[8:1] Executed successfully in 0.019 s. 1 row affected. Execution finished after 0.021 s, no errors occurred.
insert into customers (first_name, last_name, phone, street, zipcode) values ('Tom', 'Jewett', '562-555-1122', '123 Mockingbird Lane', '90210');	We think that running this insert command again with the same data would cause a duplicate value error.	[1:1] Executed successfully in 0.002 s. 1 row affected. Execution finished after 0.003 s, no errors occurred.
delete from customers where first_name = 'Tom';	We think that this will delete all rows from Customers where the first name is Tom.	1:1] Executed successfully in 0.032 s. no rows affected. Execution finished after 0.042 s, no errors occurred.

alter table customers add constraint customers_pk primary key (first_name, last_name, phone);	Command will make a primary key for customers	[1:1] Executed successfully in 0.032 s. no rows affected. Execution finished after 0.042 s, no errors occurred.
Insert into customers(first_name, last_name,phone,street,zipcode) values('Tom','Jewett','562-555-1122', '123 MockingbirdLane', '90210');	We should be able to insert this value into our table.	[13:1] Executed successfully in 0.009 s. 1 row affected. Execution finished after 0.015 s, no errors occurred.
insert into customers (first_name, last_name, phone, street, zipcode) values ('Tom', 'Jewett', '562-555-1122', '123 Mockingbird Lane', '90210');	Some values possible already included	[15:1] Failed in 0 s. [Exception, Error code 30,000, SQLState 23505] The statement was aborted because it would have caused a duplicate key value in a unique or primary key constraint or unique index identified by 'CUSTOMERS_PK' defined on 'CUSTOMERS'. Line 15, column 1 Execution finished after 0.039 s, 1 error occurred.
alter table customers add constraint customer_uk01 unique (first_name,last_name,phone, street,zipcode);	This unique constraint should make first_name, last_name, phone, street, and zipcode to have unique columns	[1:1] Executed successfully in 0.025 s. no rows affected. Execution finished after 0.039 s, 1 error occurred.

insert into customers (first_name, last_name, phone, street, zipcode) values ('Tom', 'Jewett', '562-555-1122', '123 Mockingbird Lane', '90210')	There should be no way we can add Tom Jewett since he is currently still in the database despite being deleted two commands prior.	[1:1] Failed in 0 s. [Exception, Error code 30,000, SQLState 23505] The statement was aborted because it would have caused a duplicate key value in a unique or primary key constraint or unique index identified by 'CUSTOMERS_PK' defined on 'CUSTOMERS'. Line 1, column 1 Execution finished after 0.043 s, 2 errors occurred.
alter table customers add constraint customer_uk02 unique (first_name,last_name,phone, street);	This unique constraint should make first_name, last_name, phone, and street to have unique columns.	[1:1] Executed successfully in 0.015 s. no rows affected. Execution finished after 0.024 s, 2 errors occurred.
alter table customers add constraint customer_uk03 unique (first_name,last_name,phone, zipcode);	This unique constraint should make first_name, last_name, phone, and zipcode to have unique columns.	[39:1] Executed successfully in 0.017 s. no rows affected. Execution finished after 0.019 s, 3 errors occurred.
alter table customers add constraint customer_uk04 unique (first_name,last_name,street, zipcode);	This unique constraint should make first_name, last_name, street, and zipcode to have unique columns.	[42:1] Executed successfully in 0.021 s. no rows affected. Execution finished after 0.023 s, 3 errors occurred.

insert into customers (first_name, last_name, phone, street, zipcode) values ('Tom', 'Jewett', '714-888-1212', '123 Mockingbird Lane', '90713');	Should be allowed to insert this data because the phone and zipcode are different values compared to the prior data we inserted.	[45:1] Executed successfully in 0.008 s. 1 row affected. Execution finished after 0.01 s, 3 errors occurred.
insert into customers (first_name, last_name, phone, street, zipcode) values ('Tom', 'Jewett', '714-888-7000', '123 Mockingbird Lane', '90210');	Should not be allowed to insert because the first_name, last_name, street are identical to the prior data we inserted.	[48:1] Failed in 0 s. [Exception, Error code 30,000, SQLState 23505] The statement was aborted because it would have caused a duplicate key value in a unique or primary key constraint or unique index identified by 'CUSTOMER_UK04' defined on 'CUSTOMERS'. Line 48, column 1 Execution finished after 0.011 s, 4 errors occurred.
alter table customers add constraint customer_uk05 unique (first_name,last_name,street) ;	This unique constraint statement would cause an error because of an identical parameter of unique constraint we created earlier.	[34:1] Failed in 0 s. [Exception, Error code 30,000, SQLState 23505] The statement was aborted because it would have caused a duplicate key value in a unique or primary key constraint or unique index identified by 'SQL210209110721800' defined on 'CUSTOMERS'. Line 34, column 1 Execution finished after 0.026 s, 5 errors occurred.

alter table customers add constraint customer_uk06 unique (first_name,last_name);	This unique constraint should also fail because of the identical parameters as seen prior.	[36:1] Failed in 0 s. [Exception, Error code 30,000, SQLState 23505] The statement was aborted because it would have caused a duplicate key value in a unique or primary key constraint or unique index identified by 'SQL210209110724730' defined on 'CUSTOMERS'. Line 36, column 1 Execution finished after 0.03 s, 6 errors occurred.

Assignment: <Name the lab>

Partner #1:   <Name of one of the partners>

Partner #2:   <Name of another the other partners>

Partner #3:   <Name of the third partner>

Contributions:

Portion of the project	Partner who performed that	Comments
Navigator – the one who consults the prompt and helps the team stay on focus	Larry Paul Brenda	Took turns in reading what the next line asked of us
UML class diagram (if applicable)	n/a	
DDL (if applicable)	n/a	
SQL DML Coding (if applicable)	Larry Paul Brenda	Completed derby on our own and then came to consensus of results
Testing/Validation	Larry Paul Brenda	Compared results against each other until we all got similar results
Any other functions that the team performed for this lab …	n/a	

% overall credit for partner #1: 33% or 100%

% overall credit for partner #2: 33% or 100%

% overall credit for partner #3: 33% or 100%