# Relational Database Report



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July 22, 2022

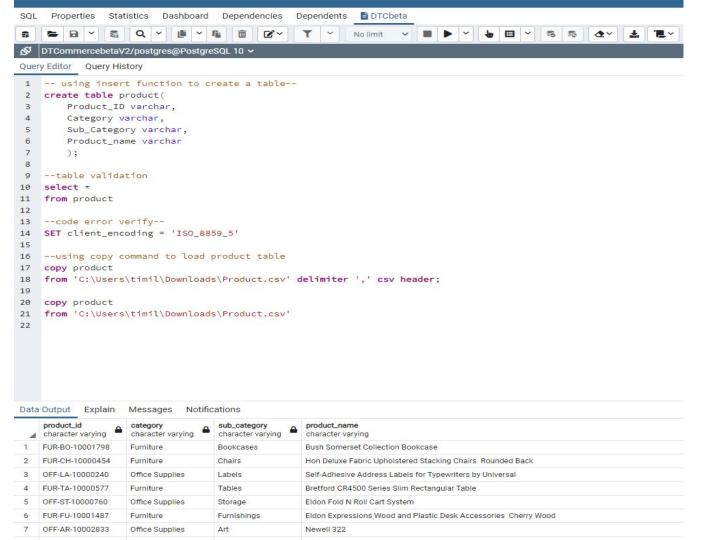
## Background

 Datatech Con wants a database table called DTcommerce that will load the datasets into their respective tables using SQL query.

### Goal

- Make three database tables to contain information about customers, products, and sales.
- Establish a database using the relational database management system.
- Use SQL query to load data in their respective tables.

Quer	y Editor Query Histo	ory									
1	using insert	function to cr	eate a table								
2	using insert function to create a table create table customer(										
3	customer_id varchar,										
4	customer_name varchar,										
5	segment varchar,										
6	age int,										
7	country varchar,										
8	city varchar,										
9	state varchar,										
10	postal_code int,										
11	region varchar										
12 13	);										
14											
15	select *										
16	from customer										
17											
18	using copy command function to load customer table										
19	copy customer										
20	<pre>from 'C:\Users\timil\Downloads\Customer.csv' delimiter ',' csv header;</pre>										
21											
22											
23	Copy customer										
24	<pre>from 'C:\Users\timil\Downloads\Customer.csv'</pre>										
25 26											
27											
28											
	Output Explain I	Messages Notifica	tione								
Data											
	customer_id character varying	customer_name character varying	segment character varying	age integer	country character varying	city character varying	character varying	postal_code integer	region character varying	7	
1	CG-12520	Claire Gute	Consumer	67	United States	Henderson	Kentucky	42420	South		
2	DV-13045	Darrin Van Huff	Corporate	31	United States	Los Angeles	California	90036	West		
3	SO-20335	Sean O'Donnell	Consumer	65	United States	Fort Lauderdale	Florida	33311	South		
4	BH-11710	Brosina Hoffman	Consumer	20	United States	Los Angeles	California	90032	West		
5	AA-10480	Andrew Allen	Consumer	50	United States	Concord	North Carolina	28027	South		
6	IM-15070	Irene Maddox	Consumer	66	United States	Seattle	Washington	98103	West		
7	HP-14815	Harold Pawlan	Home Office	20	United States	Fort Worth	Texas	76106	Central		



SQL	Properties	Statistics	Dashboard	Dependencie	es Dependents	sales.csv *					
8	<b>B</b> ~	8 Q \	/ iii v iii	i c	~ 7 ~	No limit 🗸 📗	<b> </b>	<b>II</b> Y <b>S S</b>	<b>4</b> ~	¥ .6~	
Ø □	DTCommers	e/postgres@Po	ostgreSQL 10 V								
Query Editor Query History											
	create table sales(										
3	order_line int,										
4	order_id varchar,										
5	order_date date,										
6 7	ship_date date,										
8	ship_mode varchar, customer_id varchar,										
9	product_id varchar,										
10	sales float,										
11	quantity int,										
12		unt float,									
13	27	t float									
15 16											
10	select *										
	from sale	s									
19											
	_	15.15	n to load s	ales tabl	e						
	copy sale										
	<pre>from 'C:\Users\timil\Downloads\sales.csv' delimiter ',' csv header;</pre>										
23 24	copy sales										
Distance in	<pre>from 'C:\Users\timil\Downloads\sales.csv'</pre>										
Data	C. C	olain Messa									
2	order_line integer	order_id character varying	order_date	ship_date date	ship_mode character varying	customer_id character varying	product_id character varying	double precision	quantity integer	discount double precision	profit double precision
1	1	CA-2016-15215	6 2016-11-08	2016-11-11	Second Class	CG-12520	FUR-BO-10001798	261.96	2	0	41.9136
2	2	CA-2016-15215	6 2016-11-08	2016-11-11	Second Class	CG-12520	FUR-CH-10000454	731.94	3	0	219.582
3	3	CA-2016-13868	8 2016-06-12	2016-06-16	Second Class	DV-13045	OFF-LA-10000240	14.62	2	0	6.8714
4	4	US-2015-10896	6 2015-10-11	2015-10-18	Standard Class	SO-20335	FUR-TA-10000577	957.5775	5	0.45	-383.031
5	5	US-2015-10896	6 2015-10-11	2015-10-18	Standard Class	SO-20335	OFF-ST-10000760	22.368	2	0.2	2.5164
6	6	CA-2014-11581	2 2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-FU-10001487	48.86	7	0	14.1694
7	7	CA-2014-11581	2 2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AR-10002833	7.28	4	0	1.9656
~		01.001.11501			0	01144740	TEO DI 10000075	207.450		0.0	00.7450

## Methodology

I utilized PostgreSQL to create the database

#### **SQL Query**

• The SQL query was used to validate all the three tables, they were all done in a similar way but they all didn't use the same data types. Some data would not load properly if the right data types were not used, and we also had to make sure that the code is written in a structured way for easy debug and to avoid errors.