```
1 ● ⊖ CREATE TABLE credit card(
                   id VARCHAR(100) NOT NULL,
                   iban VARCHAR(100) NOT NULL,
                   pan VARCHAR(30) NOT NULL,
                   pin VARCHAR(20) NOT NULL,
    5
                   CVV INT NOT NULL,
                  expiring date VARCHAR(20) NOT NULL,
                  PRIMARY KEY(id) );
    8
      Action Output
                           Action
                                                                                                                                                                       Message
          1 18:13:52 CREATE TABLE credit card(id VARCHAR(100) NOT NULL. iban VARCHAR(100) NOT NULL. pan INT NOT NUL... 0 row(s) affected
         -- Después de crear la tabla, insertamos los datos que corredponden a esta
 10
 11 .
         INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2938', 'TR301950312213576817638661', '5424465566813633', '3257', '984', '10/30/22'
 12 •
         INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2945', 'D026854763748537475216568689', '5142423821948828', '9080', '887', '08/24/23
 13 •
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-2952', 'BG45IVOL52710525608255', '4556 453 55 5287', '4598', '438', '06/29/21');
 14 .
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-2959', 'CR7242477244335841535', '372461377349375', '3583', '667', '02/24/23');
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-2966', 'BG72LKTQ15627628377363', '448566 886747 7265', '4900', '130', '10/29/24');
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-2973', 'PT87806228135092429456346', '544 58654 54343 384', '8760', '887', '01/30/25');
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-2980', 'DE39241881883086277136', '402400 7145845969', '5075', '596', '07/24/22');
 17 •
         INSERT INTO credit card (id. iban, pan, pin, cvv, expiring date) VALUES ('CcU-2987', 'GE89681434837748781813', '3763 747687 76666', '2298', '797', '10/31/23');
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-2994', 'BH62714428368066765294', '344283273252593', '7545', '595', '02/28/22');
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-3001', 'CY49087426654774581266832110', '511722 924833 2244', '9562', '867', '09/16/22');
 20 .
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-3008', 'LU507216693616119230', '4485744464433884', '1856', '740', '04/05/25');
 21 .
         INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-3015', 'PS119398216295715968342456821', '3784 662233 17389', '3246', '822', '01/31/22');
 22 •
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-3022', 'GT91695162850556977423121857', '5164 1379 4842 3951', '5610', '342', '04/25/25');
 23 •
         INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-3029', 'AZ62317413982441418123739746', '3429 279566 77631', '9708', '505', '09/02/23');
Output
Action Output
                                                                                                                                                                                 Duration / Fetch

    4995 19:18:45 INSERT INTO credit card (id. iban, pan, pin, cvv. expiring date) VALUES (°CcS-9573', "XX9653389310530889019... 1 row(s) affected

                                                                                                                                                                                0.000 sec
4996 19:18:45 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (°CcS-9574', "XX6627617583614326865... 1 row(s) affected
                                                                                                                                                                                0.000 sec
4997 19:18:45 INSERT INTO credit_card (id. iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9575', 'XX4998812160736265711... 1 row(s) affected
                                                                                                                                                                                0.000 sec

    4998 19:18:45 INSERT INTO credit card (id. iban, pan, pin, cvv, expiring date) VALUES (°CcS-9576', "XX5297109305877126417... 1 row(s) affected

                                                                                                                                                                                0.000 sec
```

4999 19:18:45 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (°CcS-9577', "XX1589140785948086331... 1 row(s) affected

5000 19:18:45 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ("CcS-9578", "XX9915396464561105678... 1 row(s) affected

5001 19:18:45 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9579', 'XX2963930915871702021... 1 row(s) affected

N1.1

Utilizando esta
query, creamos una
nueva tabla
"credit_card" y
declaramos el type
que va a tener cada
columna.

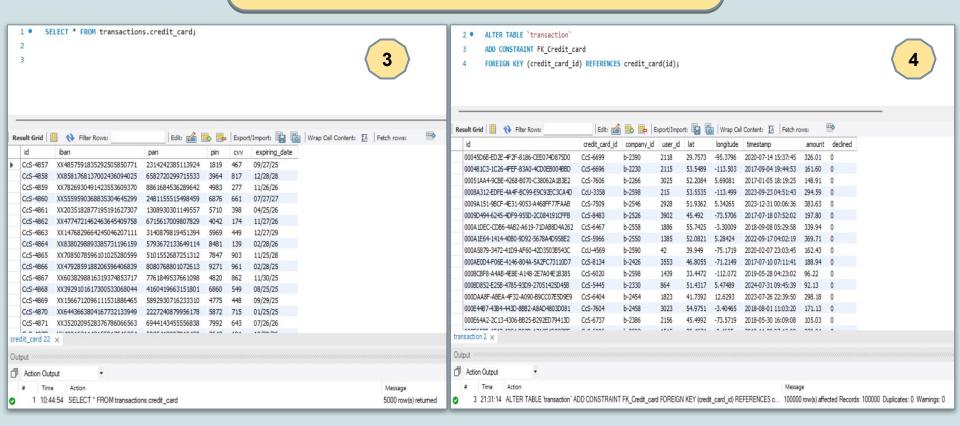
Después insertamos los datos en la tabla.

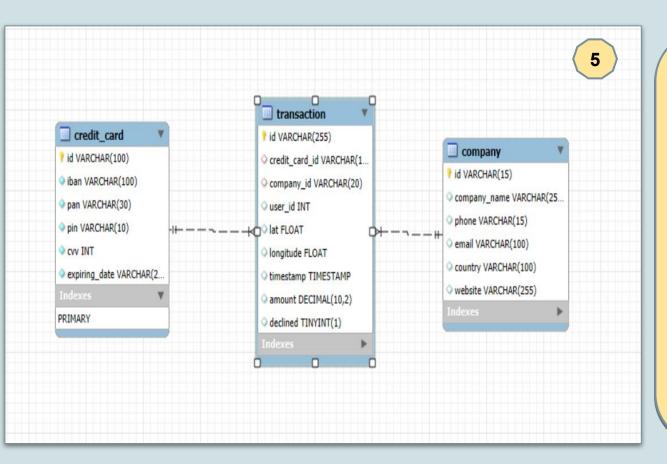
0.000 sec

0.015 sec

0.000 sec

Comprobamos que la los datos se han insertado de manera correcta y mostramos la tabla. creamos una FK para relacionar las tablas "credit_card"(id) con "transaction"(credit_card_id)





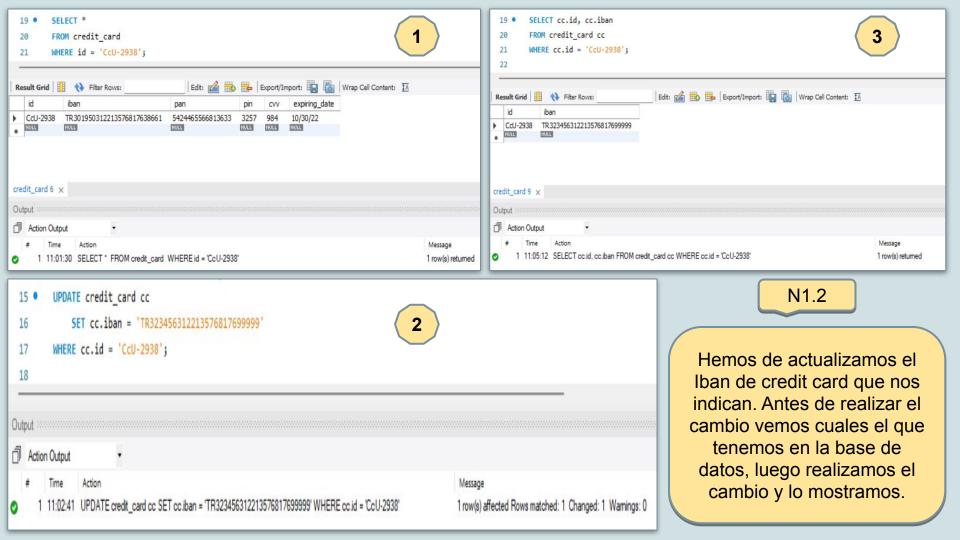
Las tablas tiene una relación 1 a N.

La tabla de hechos es "transaction" mientras "company" y "credit_card" son tablas de dimensión.

La PK de "transaction" es id La PK de "company" es id La PK de "credit_card" es id

La tabla "transaction" se relaciona con las tablas "company" y "credit_card" mediante dos FK's Donde:

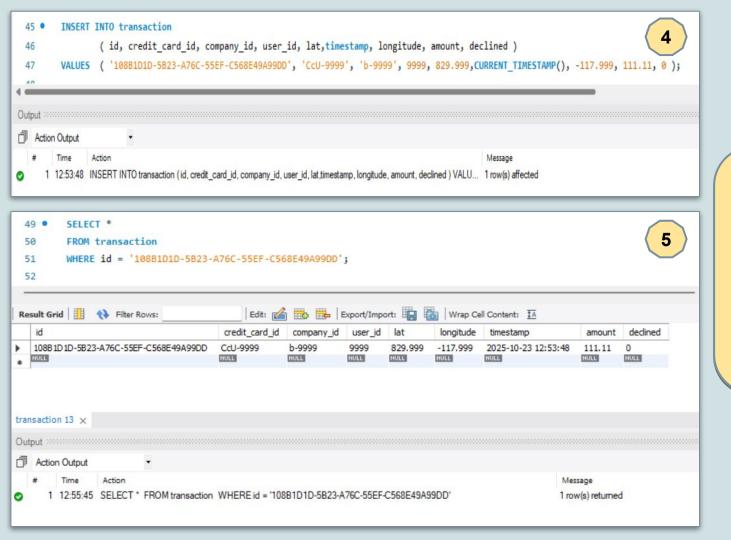
company_id hace referencia a id en la tabla "company". credit_card_id hace referencia a id en la tabla "credit_card".



```
29 •
           SELECT *
           FROM company -- No hay ninguna compañia en la base de datos con el id b-9999. Cremaos una usando ese id.
  30
           WHERE id = 'b-9999';
  31
  32
           SELECT *
  33 •
           FROM credit card -- No hay ninguna credit card en la base de datos con el id CcU-9999. Cremaos una usando ese id.
  34
  35
           WHERE id = 'CcU-9999';
 33 •
         INSERT INTO company
                 ( id, company name, phone, email, country, website )
 34
         VALUES ( 'b-9999', 'Tranportes Pepe', '03 74 10 58 35', 'logstica.transportes@ttspepe.com', 'Spain', 'https://transportespepe.com/one');
 35
  36
Action Output
       12:16:50 INSERT INTO company (id, company name, phone, email, country, website ) VALUES( b-9999', 'Tranportes Pepe', '0... 1 row(s) affected
         INSERT INTO credit card
                                                                                                                                              3
                 (id, iban, pan, pin, cvv, expiring date)
  42
         VALUES ('CcU-9999', 'XX361254537711118548758877', '1147800632149950', '2876', '551', '09/27/28');
 43
Action Output
      1 12:27:10 INSERT INTO credit card (id, iban, pan, pin, cvv, expiring date) VALUES ('CcU-9999', 'XX3612545377111185487... 1 row(s) affected
```

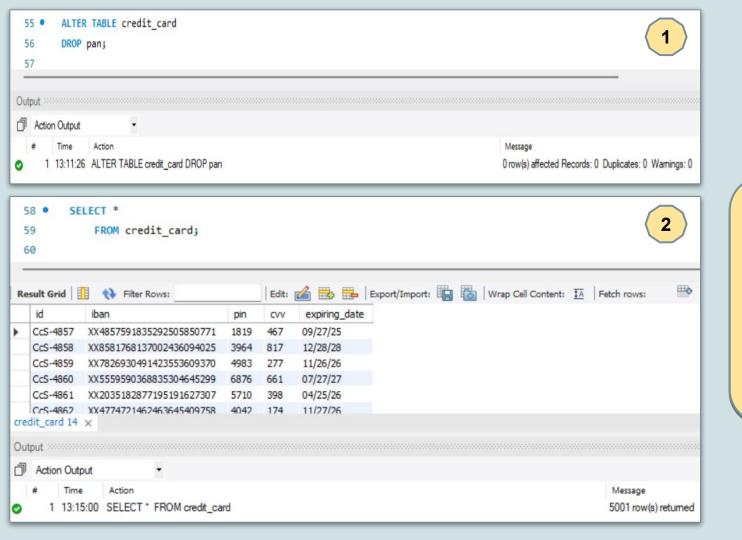
N1.3

Hemos de insertar una nueva transacción, antes de de insertar los datos comprobamos que exista la empresa y la credit card que la realizan. Vemos que ninguna de las dos existen en sus respectivas tablas en la base de datos. Con lo cual las creamos y quardamos.



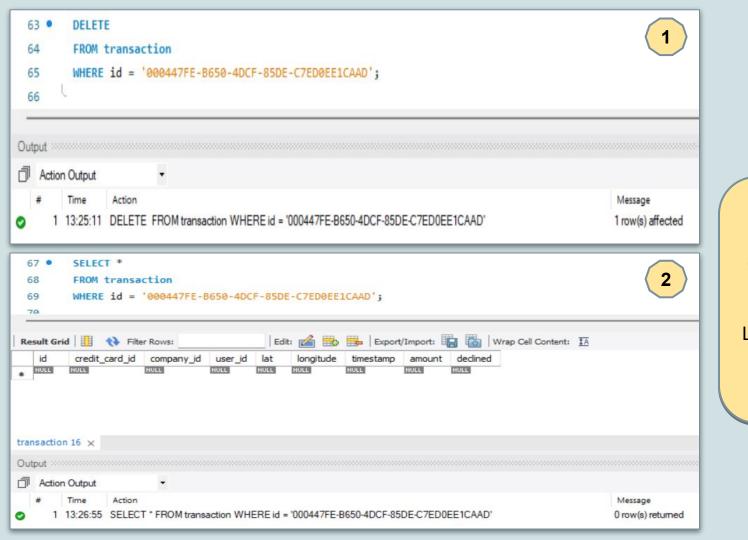
Después de haber creado la compañía y la credit card, insertamos la datos de la transacción.

Para comprobar mostramos la tabla con estos.



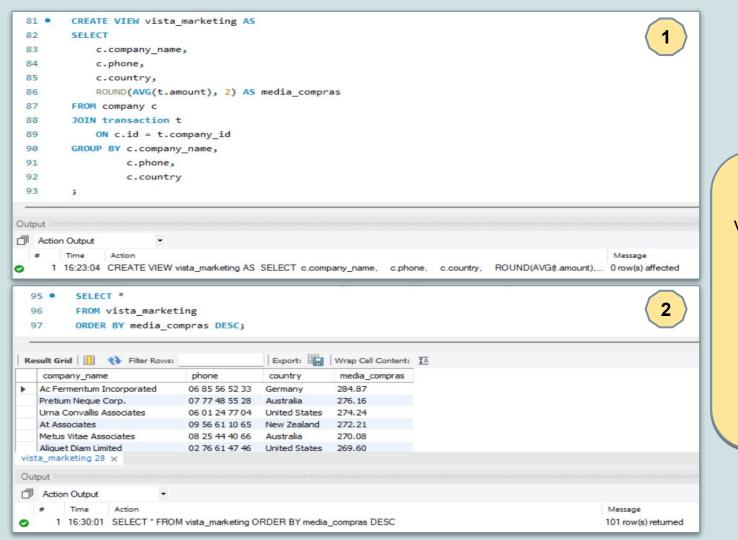
N1.4

Aquí hemos de eliminar la columna "pan" de la tabla credit_card. la eliminamos y para comprobar mostramos la tabla.



N2.1

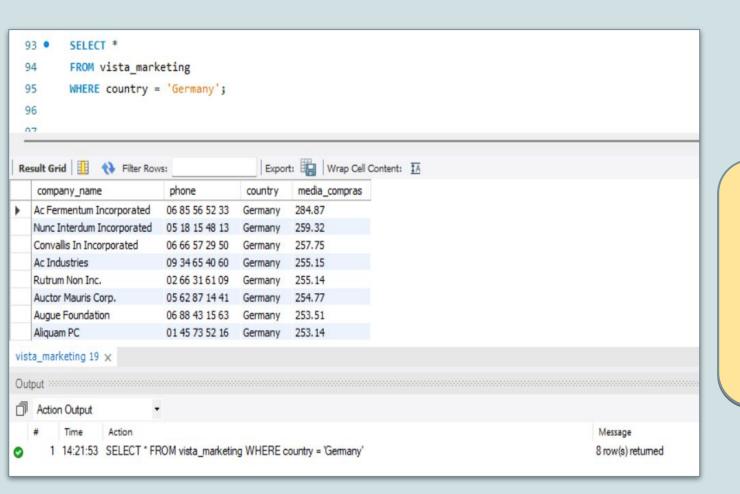
Hemos de eliminar del registro con id "000447FE-B650..." de la tabla transaction.
Lo eliminamos y para comprobarlo mostramos la tabla.



N2.2

Hemos de crear una vista, "vista marketing".

La creamos y para comprobar mostramos la vista ordenando el resultado de mayor a menor promedio de compras, "media_compras".



N2.3

Filtramos la vista

"vista_marketing"

para mostrar sólo

las compañías que

tienen su país de

residencia en

"Germany"

N3.1

4986 20:36:23 INSERT INTO user (id., name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (

4987 20:36:23 INSERT INTO user (id, name, sumame, phone, email, birth_date, country, city, postal_code, address) VALUES (

Se han realizado modificaciones y hemos de poner los comando se han hecho para ello.

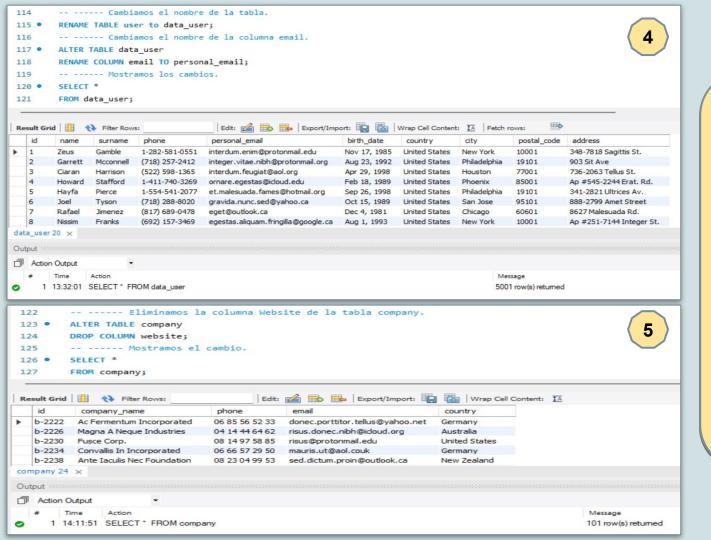
Creamos la tabla "user", comprobamos e insertamos los datos de esta.

99	CREATE TABLE IF NOT EXISTS USER	112 • SELECT •	
100	id INT PRIMARY KEY, Cambio el type de CHAR a INT para compatibilizar con user_id en transacction	113 FROM user;	
101	name VARCHAR(100),		
102	surname VARCHAR(100),		
103	phone VARCHAR(150),	Result Grid 🔢 🛟 Filter Rows: Edit: 🕍 📆 Export/Import: 🏭 🚻 Wrap Cell Content: 🔣	
104	email VARCHAR(150),	id name surname phone email birth_date country city postal_code address	
105	birth_date VARCHAR(100),	MOLL MOLL MOLL MOLL MOLL MOLL MOLL MOLL	(2)
106	country VARCHAR(150),		4
107	city VARCHAR(150),		
108	<pre>postal_code VARCHAR(100),</pre>		
109	address VARCHAR(255)		
110);	user 2 ×	
0.1.1		Output	
Output ::		☐ Action Output ▼	
Actio	on Output T	# Time Action	Message
	Time Action Message		
0 1	1 20:32:40 CREATE TABLE IF NOT EXISTS user(id INT PRIMARY KEY, Cambio el type de CHAR a INT para compatibilizar c 0 row(s) affected	1 20:34:45 SELECT* FROM user	0 row(s) returned
3 (
4 4	(1)	tal_code, address) VALUES ("153", "Keegan", "Pugh", "(016977) 3851", "sodales	
5		tal_code, address) VALUES ("154", "Cooper", "Bullock", "(021) 2521 6627", "et	
6			
7 4			
8	, , , , , , , , , , , , , , , , , , , ,		-
9 0		tal code. address) VALUES ("158". "Fatima". "Dver". "0800 1111". "adipiscine@	google.org". '
Output			
□ Ac	ction Output •		
#	Time Action	Message	Duration / Fetch
49	85 20:36:23 INSERT INTO user (id., name, sumame, phone, email, birth, date, country, city, postal, code, address) VALUES (1 row(s) affected	0.000 sec

... 1 row(s) affected

0.000 sec

0.000 sec

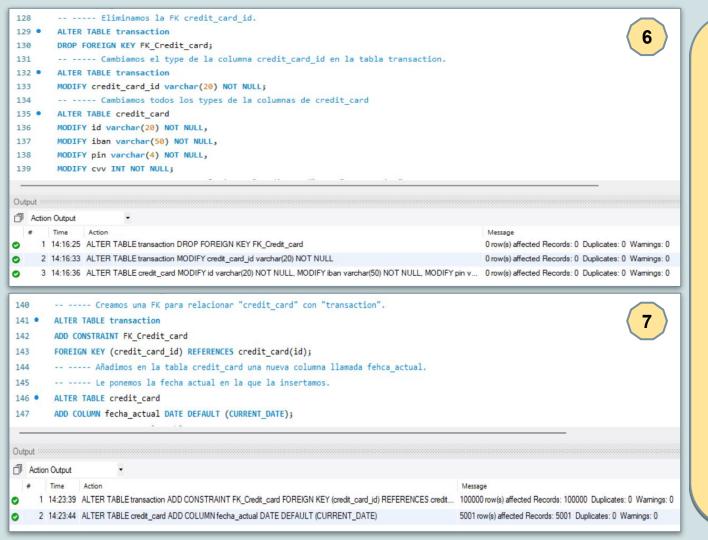


"data_user"

- Cambiamos el nombre de la tabla.
- Cambiamos el nombre de la columna "email"
- Mostramos los cambios.

"company"

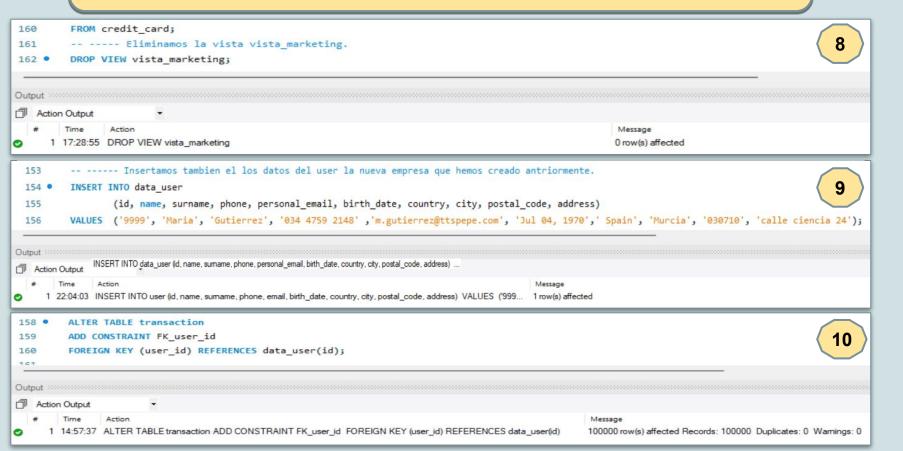
- Eliminamos la columna "website.
- Mostramos los cambios.

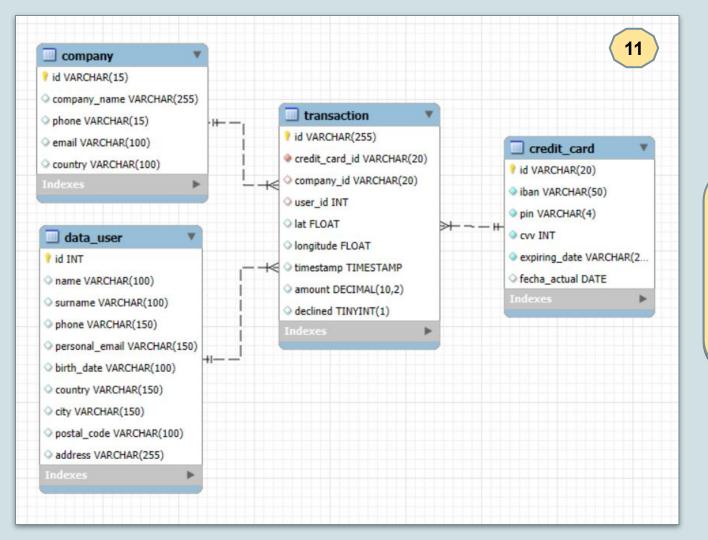


"credit card"

- Eliminamos la FK de la tabla.
- Cambiamos el type de de las columna de la tabla.
- Creamos nuevamente la FK para relacionarla con la tabla "transation" tras cambiar los types.
- Añadimos una nueva columna llamada "fecha_actual" de type DATE.
- Le insertamos la fecha actual con CUARRENT DATE

- Eliminamos la vista "vista marketing"
- Insertamos los datos de usuario de la empresa que habíamos creado el el apartado "N1.3".
- Añadimos la FK para relacionar "data_user" con "transaction".





Tras realizar todos los cambios obtenemos el diagrama que nos pide el ejercicio.

