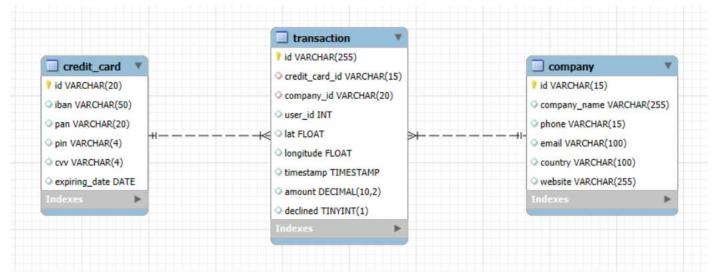
Nivel 1 - Ejercicio 1

Cree la tabla credit_card y defina el tipo de datos para cada campo. Además importe los datos para completar la tabla y vinculela con la tabla transaction.

```
1
        # Nivel 1 - Ejercicio 1
 2
 3
        USE transactions;
 4

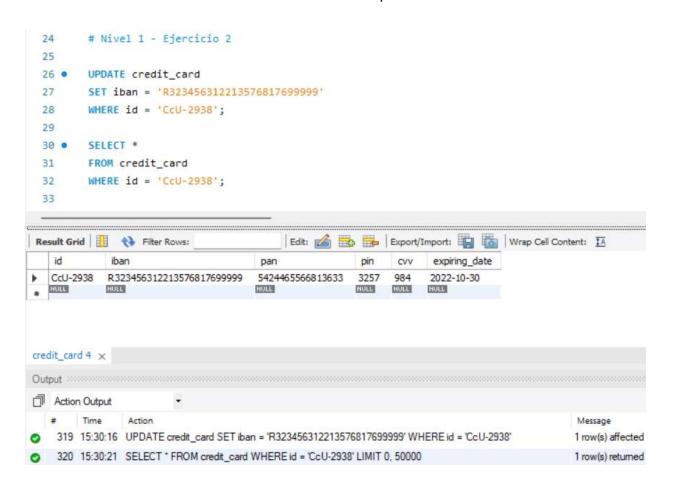
    ● CREATE TABLE credit_card (

 5
             id VARCHAR(20) PRIMARY KEY,
 6
 7
             iban VARCHAR(50),
             pan VARCHAR(20),
 8
             pin VARCHAR(4),
 9
             CVV VARCHAR(4),
10
             expiring_date VARCHAR(20));
11
12
13
        -- Insertamos datos de credit card
14
15 •
        UPDATE credit card
16
        SET expiring_date = DATE_FORMAT(STR_TO_DATE(expiring_date, '%m/%d/%y'), '%Y-%m-%d');
17
18 •
        ALTER TABLE credit card
        MODIFY COLUMN expiring date DATE;
19
20
21 •
        ALTER TABLE transaction
        ADD FOREIGN KEY (credit_card_id) REFERENCES credit_card(id);
22
         SELECT *
  24 .
  25
         FROM credit_card;
  26
                                         Edit: 🚰 🐯 Export/Import: 📳 🐻 Wrap Cell Content: 🖽
 id
             iban
                                        pin
                                                   expiring_date fecha_actual
                                              CVV
   CcU-2938 R323456312213576817699999
                                        3257
                                              984
                                                   2022-10-30
                                                                2025-02-26
   CcU-2945 DO26854763748537475216568689
                                        9080 887 2023-08-24 2025-02-26
   CcU-2952 BG45IVQL52710525608255
                                        4598
                                             438
                                                   2021-06-29
                                                                2025-02-26
   CcU-2959 CR7242477244335841535
                                                   2023-02-24 2025-02-26
                                        3583 667
   CcU-2966 BG72LKTQ15627628377363
                                        4900
                                                   2024-10-29
                                                                2025-02-26
                                              130
credit_card 1 x
Output *******
Action Output
        Time
                Action
                                                                                         Message
      5 15:34:55 SELECT * FROM transactions.credit_card LIMIT 0, 50000
                                                                                         275 row(s) returned
      6 15:36:14 SELECT * FROM credit_card LIMIT 0, 50000
                                                                                         275 row(s) returned
```



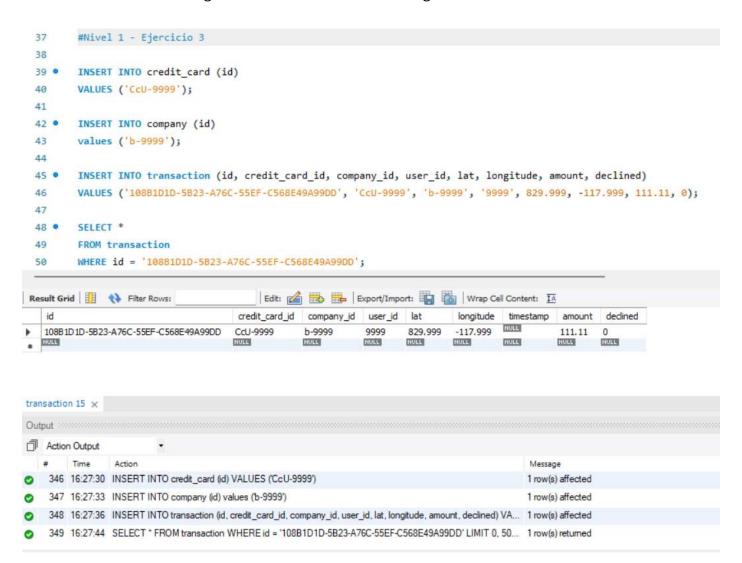
Nivel 1 - Ejercicio 2

El departamento de Recursos Humanos ha identificado un error en el número de cuenta del usuario con ID CcU-2938. La información que debe mostrarse para este registro es: R323456312213576817699999. Recuerda mostrar que el cambio se realizó.



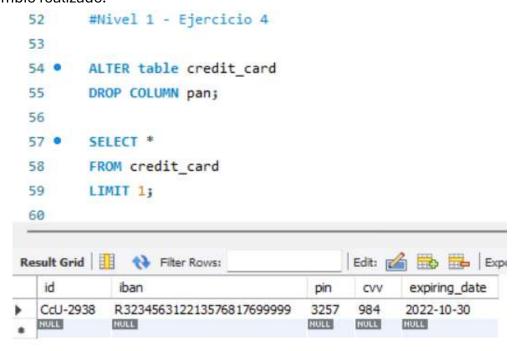
Nivel 1 - Ejercicio 3

En la tabla "transaction" ingresa un nuevo usuario con la siguiente información:



Nivel 1 - Ejercicio 4

Desde recursos humanos te solicitan eliminar la columna "pan" de la tabla credit_card. Recuerda mostrar el cambio realizado.



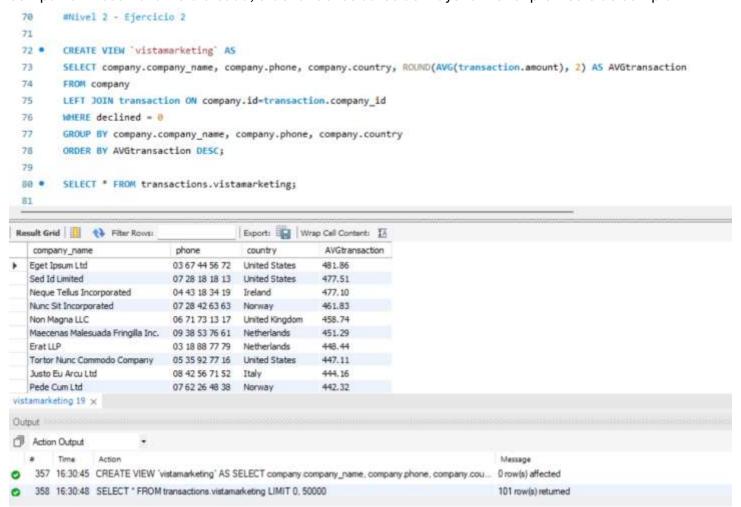
Nivel 2 - Ejercicio 1

Elimina de la tabla transacción el registro con ID 02C6201E-D90A-1859-B4EE-88D2986D3B02 de la base de datos.

```
#Nivel 2 - Ejercicio 1
 61
 62
 63 •
        DELETE FROM transaction
        WHERE id='02C6201E-D90A-1859-B4EE-88D2986D3B02';
 64
 65
        SELECT *
 66 •
        FROM transaction
 67
        WHERE id = '02C6201E-D90A-1859-B4EE-88D2986D3B02';
 68
Edit: 🚰 🏗 Export/Import: 📳 🦝 Wrap
         credit card id
                                        lat
                                              longitude
                                                       timestamp
                                                                        declined
                     company id
                                user id
                                                                 amount
        NULL
                     NULL
                               NULL
                                       NULL
                                             HULL
                                                      HULL
                                                                HULL
                                                                        NULL
  HULL
```

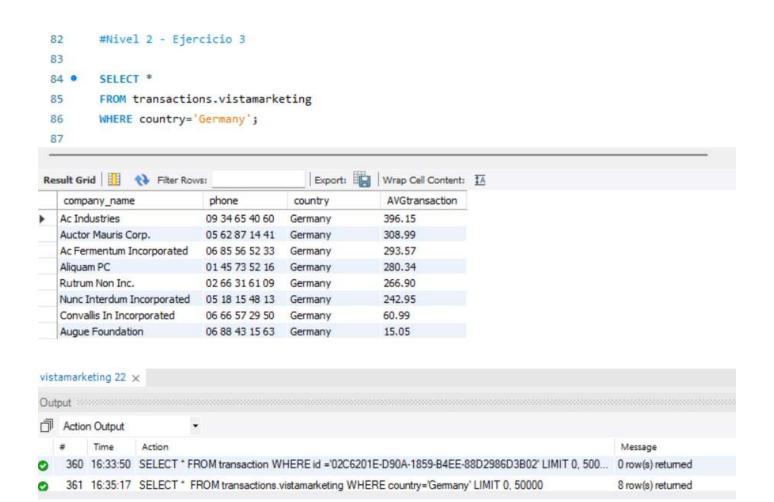
Nivel 2 - Ejercicio 2

Será necesaria que crees una vista llamada VistaMarketing que contenga la siguiente información: Nombre de la compañía. Teléfono de contacto. País de residencia. Media de compra realizado por cada compañía. Presenta la vista creada, ordenando los datos de mayor a menor promedio de compra.



Nivel 2 - Ejercicio 3

Filtra la vista VistaMarketing para mostrar sólo las compañías que tienen su país de residencia en "Germany"



Nivel 3 - Ejercicio 1

La próxima semana tendrás una nueva reunión con los gerentes de marketing. Un compañero de tu equipo realizó modificaciones en la base de datos, pero no recuerda cómo las realizó. Te pide que le ayudes a dejar los comandos ejecutados para obtener el siguiente diagrama: ...

```
-- Creamos la tabla user
1
 2
       CREATE INDEX idx_user_id ON transaction(user_id);
 3 •
 4
 5 • CREATE TABLE IF NOT EXISTS user (
 6
                id INT PRIMARY KEY,
 7
                name VARCHAR(100),
 8
                surname VARCHAR(100),
                phone VARCHAR(150),
 9
                email VARCHAR(150),
10
                birth_date VARCHAR(100),
11
12
                country VARCHAR(150),
                city VARCHAR(150),
13
                postal code VARCHAR(100),
14
                address VARCHAR(255),
15
16
                FOREIGN KEY(id) REFERENCES transaction(user_id)
17
           );
18
19
20
21
22
```

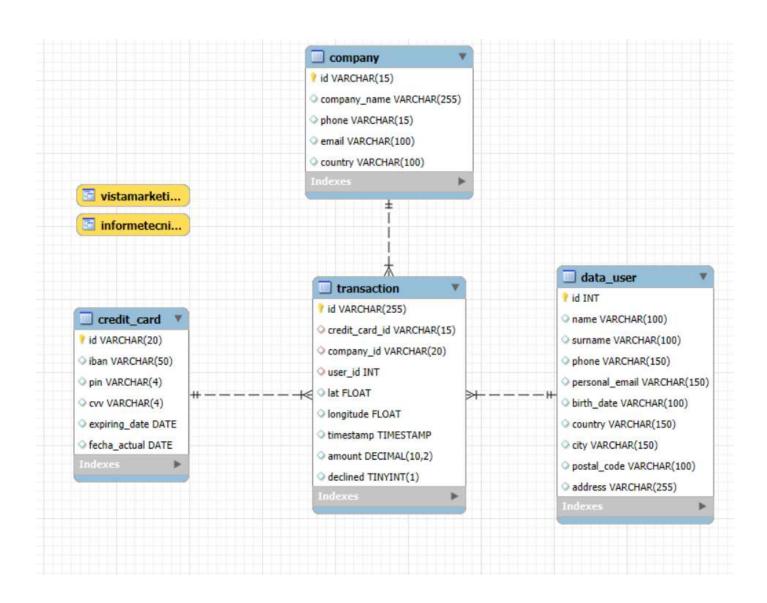


```
- Insertamos datos de user
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                         "I", "Zeus", "Gamble
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                         "2", "Garrett", "Ro
                                                                                                                        "3", "Ciaran", "Harr
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "4", "Howard", "Star
  5 .
        INSERT INTO user (id, name, surname, phone, email, birth date, country, city, postal_code, address) VALUES (
                                                                                                                        "5" "Hayfa" "Piere
  5 B
        INSERT INTO user (id, name, surname, phone, email, birth date, country, city, postal code, address) VALUES (
                                                                                                                        "6", "Joel", "Tyton"
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "7", "Rafael", "Jim
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "A", "Nissim", "Fran
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "9", "Mannis", "Mcc.
 10 .
                                                                                                                        "10" Robert" No
 11 .
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "11", "Joan", "Bairs
 12.0
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                         "12", "Benedict", "
 13 .
        INSERT INTO user (id, name, surname, phone, email, birth date, country, city, postal code, address) VALUES (
                                                                                                                         "13", "Allegra", "59
 14 .
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                         "14", "Sara", "Flynn
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                         "15", "Noelani", "Pa
        INSERT INTO user (id, name, surname, phone, email, birth date, country, city, postal_code, address) VALUES (
                                                                                                                        "16" "Eric" "Noth
                                                                                                                        "17", "Bruce", "Gil.
 18 .
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "18", "Russell", "J:
       INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
 19 .
       INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "19", "Micholes", "
 20 .
       INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "20", "Kelsey", "Bat
                                                                                                                        "21", "Hall", "Reeve
      INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
       INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "22", "Allistair",
 24 .
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                        "25", "Kelsie", "Bar
Output
Action Output
  643 16:40:52 INSERT INTO user (d. name, sumame, phone, email, birth_date, country, city, postal_code, address) V... 1 row(s) affected
644 16:40:52 SET foreign_key_checks = 1
                                                                                    0 row(s) affected
             #Nivel 3 - Ejercicio 1
  89
  90 .
            ALTER TABLE company
  91
            DROP COLUMN website;
  92 •
            ALTER TABLE user
            RENAME COLUMN email TO personal email;
  93
  94 •
            ALTER TABLE user
  95
            RENAME data user;
            ALTER TABLE credit card
            ADD COLUMN fecha actual DATE;
  97
  98 •
            UPDATE credit card
            SET fecha actual = CURDATE();
  99
Action Output
           Time
                     Action
                                                                                                                         Message
      647 16:42:35 ALTER TABLE company DROP COLUMN website
                                                                                                                         0 row(s) affected Re
     648 16:42:46 ALTER TABLE user RENAME COLUMN email TO personal_email
                                                                                                                         0 row(s) affected Re
                                                                                                                         0 row(s) affected
      649 16:42:50 ALTER TABLE user RENAME data_user
                                                                                                                         0 row(s) affected Re
     650 16:42:52 ALTER TABLE credit card ADD COLUMN fecha actual DATE
```

276 row(s) affected

651 16:42:55 UPDATE credit_card SET fecha_actual = CURDATE()

```
181 .
         show create table data user;
         ALTER TABLE data user
182 ●
          DROP CONSTRAINT data_user_ibfk_1;
183
184 .
         INSERT INTO data_user (id)
105
          values ('9999');
         ALTER TABLE transaction
106 ●
          ADD FOREIGN KEY (user_id) REFERENCES data_user(id);
187
         SELECT * FROM data_user;
188 .
Result Grid | Fiter Rows
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   id
                                            personal email
                                                                           birth_date
                                                                                        country
                                                                                                      city
                                                                                                                 postal_code address
          name
                  surname
                                                                          Nov 17, 1985
                  Gamble
                             1-282-581-0551 interdum.enim@protonmail.edu
                                                                                       United States
                                                                                                                 73544
                                                                                                                             348-7818 Sagittis St.
   2 Garrett Mcconnell (718) 257-2412 integer.vitae.nibh@protonmail.org Aug 23, 1992 United States Des Moines 59464
                                                                                                                             903 Sit Ave
         Claran
                  Harrison
                            (522) 598-1365 interdum.feugiat@aol.org
                                                                          Apr 29, 1998 United States Columbus
                                                                                                                 56518
                                                                                                                             736-2063 Tellus St.
         Howard Stafford 1-411-740-3269 ornare.egestas@icloud.edu Feb 18, 1989 United States Kallua
   4
                                                                                                                 77417
                                                                                                                             Ap #545-2244 Erat. Rd.
                            1-554-541-2077 et.malesuada.fames@hotmail.org
   5
         Hayfa
                  Pierce:
                                                                          Sep 26, 1998 United States Sandy
                                                                                                                 31564
                                                                                                                             341-2821 Ultrices Av.
   6
         Joel
                Tyson (718) 288-8020 gravida.nunc.sed@yahoo.ca Oct 15, 1989 United States Nashville
                                                                                                               96838
                                                                                                                             888-2799 Amet Street
         Rafael
                 Jmenez
                            (817) 689-0478
                                           eget@outlook.ca
                                                                          Dec 4, 1981
                                                                                       United States
                                                                                                                 29874
                                                                                                                             8627 Malesuada Rd.
         Nissim Franks (692) 157-3469 egestas.aliquam.fringilla@google.ca Aug 1, 1993 United States Jackson
                                                                                                                            Ap #251-7144 Integer St.
   8
                                                                                                                61750
                                                                                                                 pener
data_user1 ×
Dutput
Action Output
      Time
   2 16:55:05 ALTER TABLE transaction ADD FOREIGN KEY (user_id) REFERENCES data_user(id)
                                                                                                  587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0
      3 16:55:57 SELECT * FROM data_user LIMIT 0, 50000
                                                                                                  276 row(a) returned
```



Nivel 3 - Ejercicio 2

La empresa también te solicita crear una vista llamada "InformeTecnico" que contenga la siguiente información: ID de la transacción, Nombre del usuario/a, Apellido del usuario/a, IBAN de la tarjeta de crédito usada, Nombre de la compañía de la transacción realizada. Asegúrate de incluir información relevante de ambas tablas y utiliza alias para cambiar de nombre columnas según sea necesario. Muestra los resultados de la vista, ordena los resultados de forma descendente en función de la variable ID de transacción.

