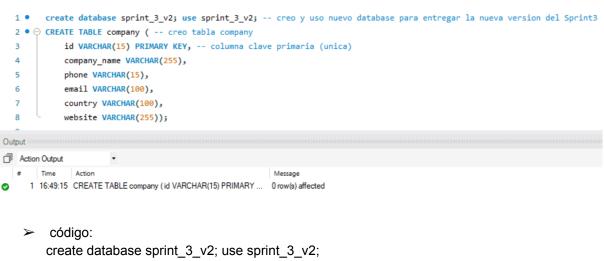
SPRINT 3v2

Edoardo Brega

★ NIVELL 1

→ exercici 1

- La teva tasca és dissenyar i crear una taula anomenada "credit_card" que
 emmagatzemi detalls crucials sobre les targetes de crèdit. La nova taula ha de ser
 capaç d'identificar de manera única cada targeta i establir una relació adequada amb
 les altres dues taules ("transaction" i "company"). Després de crear la taula serà
 necessari que ingressis la informació del document denominat
 "dades_introduir_credit". Recorda mostrar el diagrama i realitzar una breu descripció
 d'aquest.
- creo las tablas desde cero sin añadir ni INDEX ni FOREIGN KEY para una mayor limpieza del codigo



create database sprint_3_v2; use sprint_3_v2
CREATE TABLE company (
 id VARCHAR(15) PRIMARY KEY,
 company_name VARCHAR(255),
 phone VARCHAR(15),
 email VARCHAR(100),
 country VARCHAR(100),
 website VARCHAR(255));

```
15
 16 • ⊖ CREATE TABLE transaction ( -- creo tabla transaction
              id VARCHAR(255) PRIMARY KEY, -- columna clave primaria (unica)
 17
              credit_card_id VARCHAR(15),
 18
              company_id VARCHAR(20),
 19
              user_id INT,
 20
              lat FLOAT,
 21
              longitude FLOAT,
 22
 23
              timestamp TIMESTAMP,
 24
              amount DECIMAL(10, 2),
 25
              declined BOOLEAN);
Output
Action Output
      1 17:03:57 CREATE TABLE transaction ( -- creo tabla transaction id V... 0 row(s) affected
```

➤ código:

```
CREATE TABLE transaction (
id VARCHAR(255) PRIMARY KEY,
credit_card_id VARCHAR(15),
company_id VARCHAR(20),
user_id INT,
lat FLOAT,
longitude FLOAT,
timestamp TIMESTAMP,
amount DECIMAL(10, 2),
declined BOOLEAN);
```

```
32 • ⊖ CREATE TABLE user ( -- creo tabla user
             id INT PRIMARY KEY, -- columna clave primaria (unica)
 33
 34
             name VARCHAR(100),
 35
             surname VARCHAR(100),
 36
             phone VARCHAR(150),
             email VARCHAR(150),
 37
             birth_date VARCHAR(100),
 38
 39
             country VARCHAR(150),
             city VARCHAR(150),
 40
              postal_code VARCHAR(100),
 41
              address VARCHAR(255));
 42
Output
Action Output
     1 17:07:19 CREATE TABLE user ( -- creo tabla user id INT PRIMARY... 0 row(s) affected
```

> código:

```
CREATE TABLE user (
id INT PRIMARY KEY,
name VARCHAR(100),
surname VARCHAR(100),
phone VARCHAR(150),
email VARCHAR(150),
birth_date VARCHAR(100),
country VARCHAR(150),
city VARCHAR(150),
postal_code VARCHAR(100),
address VARCHAR(255));
```

```
50 • ⊖ CREATE TABLE credit_card ( -- creo tabla credit_card
                  id VARCHAR(20) PRIMARY KEY, -- columna clave primaria (unica)
      51
                  iban VARCHAR(50),
      52
                  pan VARCHAR(100),
      53
      54
                  pin VARCHAR (4),
                  cvv int,
      55
      56
                  expiring_date VARCHAR(10));
      57
      58
      59
    Action Output
            Time
                    Action
                                               Message
          1 17:13:26 CREATE TABLE credit_card (id V... 0 row(s) affected
> código:
   CREATE TABLE credit_card (
     id VARCHAR(20) PRIMARY KEY,
     iban VARCHAR(50),
     pan VARCHAR(100),
     pin VARCHAR (4),
```

cvv int,

expiring_date VARCHAR(10));

creo INDEX y FOREIGN KEY

```
59 • CREATE INDEX idx_transaction_user_id ON transaction(user_id);
  60 • CREATE INDEX idx_transaction_company_id ON transaction(company_id);
  61 • CREATE INDEX idx_transaction_credit_card_id ON transaction(credit_card_id);
  62 • CREATE INDEX idx_transaction_timestamp ON transaction(timestamp);
  63 • CREATE INDEX idx_transaction_declined ON transaction(declined);
  64
  65 • ALTER TABLE transaction
  66
            ADD CONSTRAINT fk_transaction_company FOREIGN KEY (company_id) REFERENCES company(id),
  67
            ADD CONSTRAINT fk_transaction_user FOREIGN KEY (user_id) REFERENCES user(id),
  69
  70
              ADD CONSTRAINT fk transaction credit card FOREIGN KEY (credit card id) REFERENCES credit card(id);
Output ::::
Action Output
       Time
                                                              Message
1 17:31:49 CREATE INDEX idx_transaction_user_id ON transactio... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
2 17:31:49 CREATE INDEX idx_transaction_company_id ON trans... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
      3 17:31:49 CREATE INDEX idx_transaction_credit_card_id ON tra... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
     4 17:31:49 CREATE INDEX idx_transaction_timestamp ON transac... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
0
      5 17:31:49 CREATE INDEX idx_transaction_declined ON transacti... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
6 17:31:49 ALTER TABLE transaction ADD CONSTRAINT fk_tran... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
```

> código:

CREATE INDEX idx_transaction_user_id ON transaction(user_id);
CREATE INDEX idx_transaction_company_id ON transaction(company_id);
CREATE INDEX idx_transaction_credit_card_id ON transaction(credit_card_id);
CREATE INDEX idx_transaction_timestamp ON transaction(timestamp);

CREATE INDEX idx_transaction_declined ON transaction(declined);

ALTER TABLE transaction

ADD CONSTRAINT fk_transaction_company FOREIGN KEY (company_id) REFERENCES company(id),

ADD CONSTRAINT fk_transaction_user FOREIGN KEY (user_id) REFERENCES user(id),

ADD CONSTRAINT fk_transaction_credit_card FOREIGN KEY (credit_card_id) REFERENCES credit_card(id);

inserto los valores de la tabla user

```
-- Insertamos datos de user
  2 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                                         "1", "Zeus", "Gamble", "1-282-581-0551", "interdum.e
          INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                                        "2", "Garrett", "Mcconnell", "(718) 257-2412", "integ
          INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                                        "3", "Ciaran", "Harrison", "(522) 598-1365", "interdo
          INSERT INTO user (id, name, surname, phone, email, birth date, country, city, postal code, address) VALUES (
                                                                                                                                         "4", "Howard", "Stafford", "1-411-740-3269", "ornare.
                                                                                                                                         "5", "Hayfa", "Pierce", "1-554-541-2077", "et.malesua
          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 (
                                                                                                                                        "6", "Joel", "Tyson", "(718) 288-8020", "gravida.nund
  8 •
         INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                                        "7", "Rafael", "Jimenez", "(817) 689-0478", "eget@out
                                                                                                                                         "8", "Nissim", "Franks", "(692) 157-3469", "egestas.a
        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 (
        INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                                        "10", "Robert", "Mccarthy", "(324) 746-6771", "fermen
         INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
                                                                                                                                        "11", "Joan", "Baird", "(981) 429-8106", "et@outlook.
Output :::
Action Output
   269 17:36:10 INSERT INTO user (id., name, sumame, phone, email, birth_date, country... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
270 17:36:10 INSERT INTO user (id, name, sumame, phone, email, birth_date, country... 1 row(s) affected
                                                                                                                                                                                  0.016 sec
   271 17:36:10 INSERT INTO user (id. name, surname, phone, email, birth, date, country... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
272 17:36:10 INSERT INTO user (id, name, surname, phone, email, birth_date, country... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
   273 17:36:10 INSERT INTO user (id, name, sumame, phone, email, birth_date, country... 1 row(s) affected
                                                                                                                                                                                  0.000 sec

    274 17:36:10 INSERT INTO user (id, name, sumame, phone, email, birth_date, country... 1 row(s) affected

                                                                                                                                                                                  0.000 sec
   275 17:36:10 INSERT INTO user (id, name, sumame, phone, email, birth_date, country... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
```

inserto los valores de la tabla company

```
2 • INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
                                                                                                         'b-2222', 'Ac Fermentum Incorporated', '06 85 56 52 33', 'donec.porttitor.tellus@
         {\color{red} \textbf{INSERT INTO company (id, company\_name, phone, email, country, website)} \ {\color{red} \textbf{VALUES}} \ (
                                                                                                         'b-2226', 'Magna A Neque Industries', '04 14 44 64 62', 'risus.donec.nibh@icloud.
                                                                                                         'b-2230', 'Fusce Corp.', '08 14 97 58 85', 'risus@protonmail.edu', 'United States
         INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
                                                                                                         'b-2234', 'Convallis In Incorporated', '06 66 57 29 50', 'mauris.ut@aol.couk', 'G
         INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
         {\color{red} \textbf{INSERT INTO company (id, company\_name, phone, email, country, website)} \ \ \textbf{VALUES} \ \ (
                                                                                                         'b-2238', 'Ante Iaculis Nec Foundation', '08 23 04 99 53', 'sed.dictum.proin@outl
                                                                                                         'b-2242', 'Donec Ltd', '01 25 51 37 37', 'at.iaculis@hotmail.couk', 'Norway', 'ht
         INSERT INTO company (id, company name, phone, email, country, website) VALUES (
         INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
                                                                                                          'b-2246', 'Sed Nunc Ltd', '02 62 64 73 48', 'nibh@yahoo.org', 'United Kingdom',
          INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
                                                                                                         'b-2250', 'Amet Nulla Donec Corporation', '07 15 25 14 74', 'mattis.integer.eu@pr
                                                                                                         'b-2254', 'Nascetur Ridiculus Mus Inc.', '06 26 87 61 84', 'suspendisse.dui@iclou
 10 •
         INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
        INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
                                                                                                         'b-2258', 'Vestibulum Lorem PC', '02 02 87 33 40', 'aenean.massa.integer@aol.net'
         INSERT INTO company (id, company_name, phone, email, country, website) VALUES (
                                                                                                         'b-2262', 'Gravida Sagittis LLP', '03 81 28 33 97', 'turpis.vitae@google.ca', 'Sw
                                                                                                                                                    'A6 25 15 52 43'
          TNSEDT TNTO company /id company name phone email country website\ VALHES
Action Output
95 17:39:07 INSERT INTO company (id, company_name, phone, email, country, web... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
96 17:39:07 INSERT INTO company (id, company_name, phone, email, country, web... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
     97 17:39:07 INSERT INTO company (id, company_name, phone, email, country, web... 1 row(s) affected
98 17:39:07 INSERT INTO company (id, company_name, phone, email, country, web... 1 row(s) affected
     99 17:39:07 INSERT INTO company (id, company_name, phone, email, country, web... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
100 17:39:07 INSERT INTO company (id, company_name, phone, email, country, web... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
```

inserto los valores de la tabla credit_card

```
-- Insertamos datos de credit_cardD
         INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
                                                                                                     'CcU-2938', 'TR301950312213576817638661', '5424465566813633', '3257', '984', '10/30/22')
                                                                                                    'CcU-2945', 'D026854763748537475216568689', '5142423821948828', '9080', '887', '08/24/2
         INSERT INTO credit card (id. iban, pan, pin, cvv, expiring date) VALUES (
                                                                                                     'CcU-2952', 'BG45IVQL52710525608255', '4556 453 55 5287', '4598', '438', '06/29/21');
          INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
         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', 'BG72LKT015627628377363', '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');
                                                                                                    'CcU-2987', 'GE89681434837748781813', '3763 747687 76666', '2298', '797', '10/31/23'); 'CcU-2994', 'BH62714428368066765294', '344283273252593', '7545', '595', '02/28/22');
         INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
 10 •
        INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
          INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
                                                                                                    'CcU-3001', 'CY49087426654774581266832110', '511722 924833 2244', '9562', '867',
         INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
                                                                                                    'CcU-3008', 'LU507216693616119230', '4485744464433884', '1856', '740', '04/05/25');
                                                                                                                 'DC1103082162057150683A2A56821' '378A 662233 17380'
 13 .
          TNSEDT TNTO credit card (id ihan nan nin con evniring date) VALUES
Action Output
270 17:40:40 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUE... 1 row(s) affected
                                                                                                                                                                                     0.000 sec

    271 17:40:40 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUE... 1 row(s) affected

                                                                                                                                                                                     0.000 sec
                                                                                                                                                                                     0.016 sec
272 17:40:40 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUE... 1 row(s) affected
   273 17:40:40 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUE... 1 row(s) affected
                                                                                                                                                                                     0.000 sec

    274 17:40:40 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUE... 1 row(s) affected

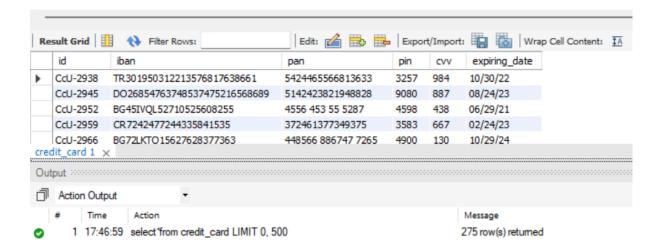
                                                                                                                                                                                     0.000 sec
275 17:40:40 INSERT INTO credit card (id. iban, pan, pin, cvv, expiring date) VALUE... 1 row(s) affected
                                                                                                                                                                                     0.000 sec
```

* inserto los valores de la tabla transaction

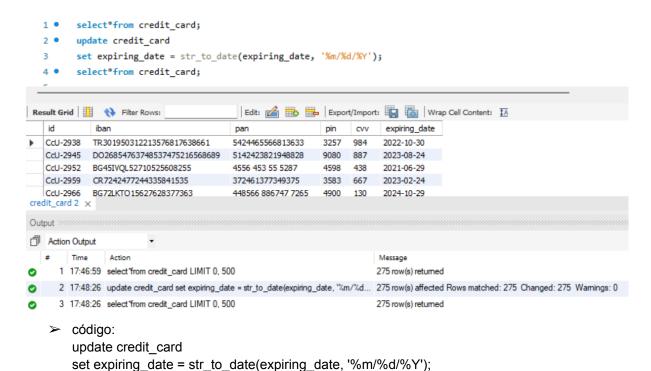
```
-- Insertamos datos de transaction
         INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                     '108B1D1D-5B23-A76C-55EF-C568E49A05DD'.
          INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                    '7DC26247-20EC-53FE-E555-B6C2E55CA5D5',
  4 •
         INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                    '72997E96-DC2C-A4D7-7C24-66C302F8AE5A'.
         INSERT INTO transaction (id, credit card id, company id, user id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                    'AB069F53-965E-A2A8-CE06-CA8C4FD92501',
          INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                     '2F3B6AB6-147D-EB0B-FE8D-9A4E2EA9DBD5'.
                                                                                                                                                    '580EEF86-B8A1-EFAA-5EE1-27E7DC8F54A4',
         INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
  8 •
         INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                    '28928E1C-EC14-A760-0A75-871477649D6A'.
         INSERT INTO transaction (id, credit card id, company id, user id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                     '063FBA79-99EC-66FB-29F7-25726D1764A5',
          INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
                                                                                                                                                    '841AC1A0-9CA6-2AF7-EBC2-BC9C77C1EBB8',
  11 •
          INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
         INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined) VALUES (
INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude_timestamp, amount_declined) VALUES (
                                                                                                                                                    'D3470F3E-9683-799A-40F1-E42C143BAC5A',
 12 •
                                                                                                                                                      nee3707/_/07E_01//_0E27_476C80D26/8E'
Output ::
Action Output
582 17:41:45 INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, l... 1 row(s) affected
583 17:41:45 INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, l... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
   584 17:41:45 INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, l... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
0.016 sec
   586 17:41:45 INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, l... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
587 17:41:45 INSERT INTO transaction (id., credit card id., company id., user id., lat. I... 1 row(s) affected
                                                                                                                                                                                  0.000 sec
```

selecciono los valores de credit_card con la fecha de tipo texto (VARCHAR)

1 • select*from credit_card;



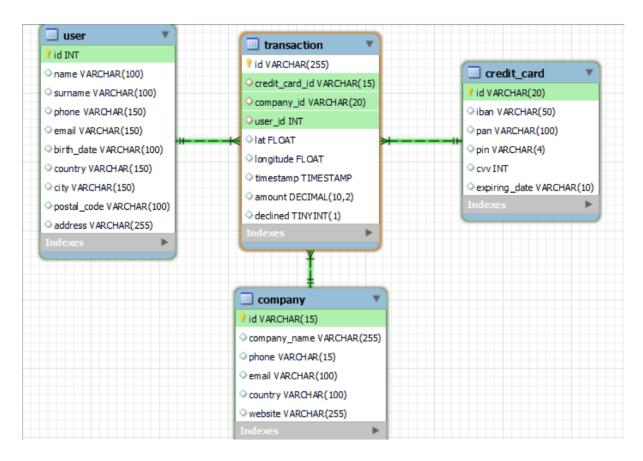
modifico el tipo de valor contenido en la columna 'Expiring_date'



> explicación:

Modifico la columna 'Expiring_date' para que el sistema la reconozca como fecha y poder trabajar con ella.

* muestro el modelo creado



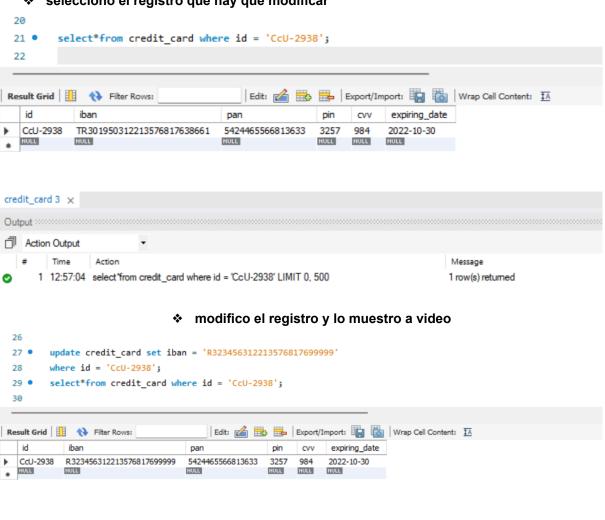
➤ El modelo del diagrama es un modelo estrella. El modelo estrella es una técnica de modelado de datos que se utiliza para diseñar y optimizar almacenes de datos y data marts. Su nombre se debe a la forma que tiene el esquema lógico, que consta de una tabla central llamada tabla de hechos y varias tablas periféricas llamadas tablas de dimensiones. La tabla de hechos es 'Transaction', las otras son tablas de dimensiones.

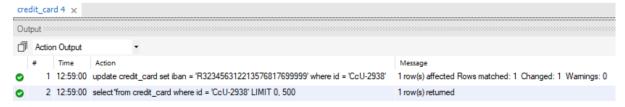
Las relaciones entre las tablas son:

transaction.company_id - N a 1 - company.id transaction.credit_card_id - N a 1- credit_card.id transaction.user_id - N a 1 - user.id

Una relacion 'N a 1' es aquella que vincula un número indeterminado de registros de la primera tabla con un único registro de la segunda, y vincula un registro de la segunda tabla con un número indeterminado de registros de la primera.

- El departament de Recursos Humans ha identificat un error en el número de compte de l'usuari amb ID CcU-2938. La informació que ha de mostrar-se per a aquest registre és: R323456312213576817699999. Recorda mostrar que el canvi es va realitzar.
- * selecciono el registro que hay que modificar





> código:

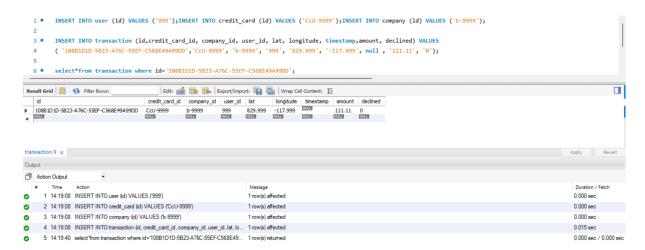
update credit_card set iban = 'R323456312213576817699999' where id = 'CcU-2938';

> explicación:

Utilizo la vista coCon 'Update' puedo modificar uno o más registros de una tabla seleccionada con el valor definido con 'Set'. Con 'Where' limito el cambio a los registros que cumplen la condición.

• En la taula "transaction" ingressa un nou usuari amb la següent informació:

Id 108B1D1D-5B23-A76C-55EF-C568E49A99DD credit_card_id CcU-9999 company_id b-9999 user_id9999 lat 829.999 longitude -117.999 amount 111.11 declined 0



codigo:

INSERT INTO user (id) VALUES ('999');INSERT INTO credit_card (id) VALUES ('CcU-9999');INSERT INTO company (id) VALUES ('b-9999');

INSERT INTO transaction (id,credit_card_id, company_id, user_id, lat, longitude, timestamp,amount, declined) VALUES ('108B1D1D-5B23-A76C-55EF-C568E49A99DD','CcU-9999', 'b-9999', '999', '829.999', '-117.999', null , '111.11', '0');

select*from transaction where id='108B1D1D-5B23-A76C-55EF-C568E49A99DD';

> explicación:

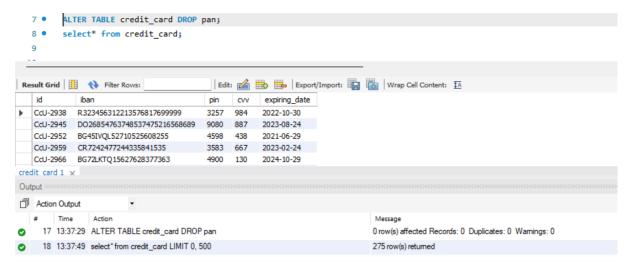
Para poder ingresar el registro tengo que añadir primero los registros en las tablas user, credit_card y company.

Eso porque las foreign key que tiene la tabla transaction no admiten valores que no esten relacionados con las otras tablas.

Podria superar el error quitando el control con 'set foreign key=0' pero me quedaria con una relacion no valida entre tablas que darian errores.

Por eso prefiero añadir manualmente los registros en las otras tablas.

 Des de recursos humans et sol·liciten eliminar la columna "pan" de la taula credit_*card. Recorda mostrar el canvi realitzat.



> codigo:

ALTER TABLE credit_card DROP pan;

> explicación:

Con 'Alter Table' selecciono la tabla que quiero modificar y con 'DROP' elimino la columna que especifico despues.



→ Elimina de la taula transaction el registre amb ID 02C6201E-D90A-1859-B4EE-88D2986D3B02 de la base de dades.



codigo: DELETE FROM transaction WHERE id='02C6201E-D90A-1859-B4EE-88D2986D3B02';

La secció de màrqueting desitja tenir accés a informació específica per a realitzar anàlisi i estratègies efectives. S'ha sol·licitat crear una vista que proporcioni detalls clau sobre les companyies i les seves transaccions. Serà necessària que creïs una vista anomenada VistaMarketing que contingui la següent informació: Nom de la companyia. Telèfon de contacte. País de residència. Mitjana de compra realitzat per cada companyia. Presenta la vista creada, ordenant les dades de major a menor mitjana de compra.

creo y muestro el contenido de la vista



codigo:

CREATE VIEW VistaMarketing AS
SELECT company_name'Nom companyia',phone'Telèfon',
country'País',ROUND(AVG(amount),2)'Mitjana compra'
FROM company
join transaction on company_id = company.id
where declined = 0
group by company_id
order by 'Mitjana compra' desc;
select*from VistaMarketing;

explicación:

Para crear una nueva vista utilizo 'Create view' seguido del nombre de la vista.

Selecciono las columnas que quiero mostrar de la tabla 'Company' y a traves de la relacion 'transaction.company_id = company.id' con la tabla 'Transaction' puedo mostrar la media de las transacciones agrupadas por compañia.

Con 'declined=0' selecciono solo las transacciones no declinadas.

Con 'Round(avg(..),2) limito los decimales del resultado.

- Filtra la vista VistaMarketing per a mostrar només les companyies que tenen el seu país de residència en "Germany"
- selecciono los valores filtrados

```
1 • SELECT `Nom de la companyia` FROM transactions.vistamarketing
2 where `País de residència`='germany';
```



> codigo:

SELECT `Nom de la companyia` FROM transactions.vistamarketing where `País de residència`='germany';

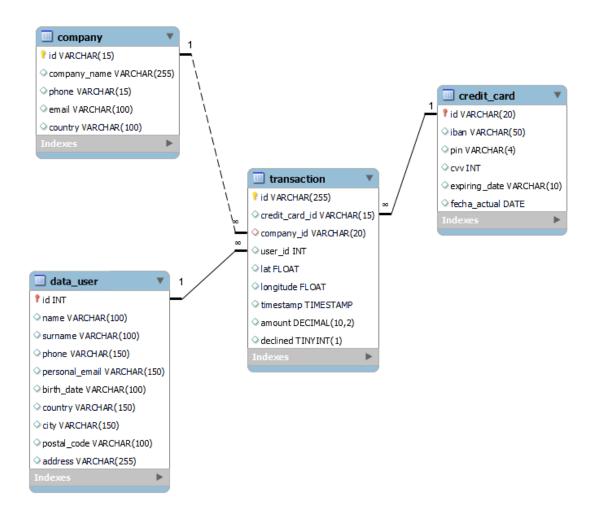
> explicación:

Utilizo la vista como si fuera una tabla: selecciono los nombres de las compañias que cumplen la cláusula contenida en el 'Where'.

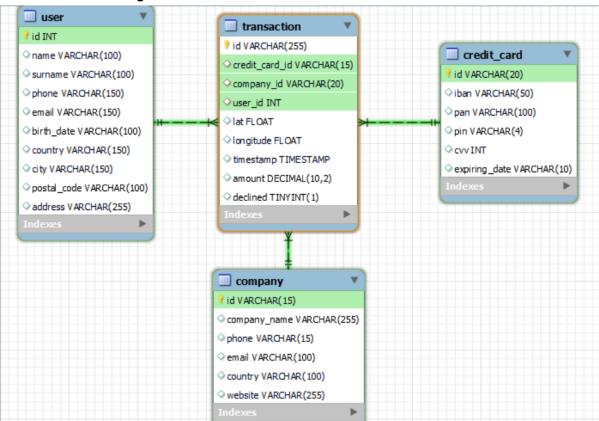
★ NIVELL 3

→ exercici 1

 La setmana vinent tindràs una nova reunió amb els gerents de màrqueting. Un company del teu equip va realitzar modificacions en la base de dades, però no recorda com les va realitzar. Et demana que l'ajudis a deixar els comandos executats per a obtenir el següent diagrama:



* muestro el diagrama de base



muestro el codigo

- 1 alter table company drop website;
- 2 alter table user rename data_user;
- 3 alter table data_user rename column email to personal_email;
- 4 alter table credit_card add column fecha_actual date;

Output

Time Action Output

Time Action Message

0 1 17:59:17 alter table company drop website

0 1 17:59:17 alter table user rename data_user

0 1 17:59:17 alter table data_user rename column email to personal_email

0 1 17:59:17 alter table data_user rename column email to personal_email

0 1 17:59:17 alter table data_user rename column email to personal_email

0 1 17:59:17 alter table credit_card add column fecha_actual date

0 1 17:59:17 alter table credit_card add column fecha_actual date

0 1 1 17:59:17 alter table credit_card add column fecha_actual date

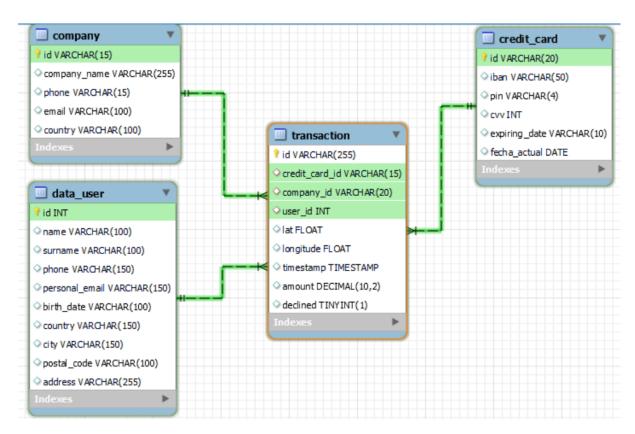
0 1 1 17:59:17 alter table credit_card add column fecha_actual date

0 1 1 17:59:17 alter table credit_card add column fecha_actual date

- 1 ALTER TABLE transaction DROP FOREIGN KEY fk_cc;
- 2 ALTER TABLE credit_card MODIFY id VARCHAR(20);
- ALTER TABLE transaction ADD CONSTRAINT fk_cc FOREIGN KEY (credit_card_id) REFERENCES credit_card(id);

Output			
đ	Action Output		
	# Time Action	Message	Duration / Fetch
0	1 14:47:06 ALTER TABLE transaction DROP FOREIGN KEY fk_cc	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
0	2 14:47:06 ALTER TABLE credit_card MODIFY id VARCHAR(20)	276 row(s) affected Records: 276 Duplicates: 0 Warnings: 0	0.078 sec
0	3 14:47:06 ALTER TABLE transaction ADD CONSTRAINT fk_cc FOREIGN KEY (cr	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0	0.110 sec

muestro el resultado



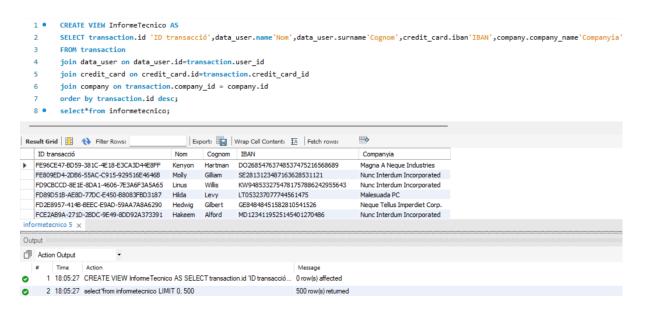
codigo:

alter table company drop website; alter table user rename data_user; alter table data_user rename column email to personal_email; alter table credit_card add column fecha_actual date;

• L'empresa també et sol·licita crear una vista anomenada "InformeTecnico" que contingui la següent informació:

ID de la transacció Nom de l'usuari/ària Cognom de l'usuari/ària IBAN de la targeta de crèdit usada. Nom de la companyia de la transacció realitzada.

Assegura't d'incloure informació rellevant de totes dues taules i utilitza àlies per a canviar de nom columnes segons sigui necessari. Mostra els resultats de la vista, ordena els resultats de manera descendent en funció de la variable ID de transaction.



➤ codigo:

CREATE VIEW InformeTecnico AS

SELECT transaction.id 'ID

transacció',data_user.name'Nom',data_user.surname'Cognom',credit_card.iban'IBAN',company.company_name'Companyia'

FROM transaction

join data_user on data_user.id=transaction.user_id join credit_card on credit_card.id=transaction.credit_card_id join company on transaction.company_id = company.id order by transaction.id desc; select*from informetecnico;

> explicación:

Para crear una nueva vista utilizo 'Create View ** as'.

Despues selecciono todas las columnas necesarias a mostrar las informaciones requeridas. Utilizo 'Join' para poder mostrar las informaciones de todas las tablas relacionadas. Ordeno todo por el ld de la transaccion.