Ejercicio 1

Tu tarea es diseñar y crear una tabla llamada "credit_card" que almacene detalles cruciales sobre las tarjetas de crédito. La nueva tabla debe ser capaz de identificar de forma única cada tarjeta y establecer una relación adecuada con las otras dos tablas ("transaction" y "company"). Después de crear la tabla será necesario que ingreses la información del documento denominado "datos_introducir_credit". Recuerda mostrar el diagrama y realizar una breve descripción del mismo.

• Creacion de la Tabla "credit_card"

```
| CREATE TABLE IF NOT EXISTS credit_card (
| id VARCHAR(20) PRIMARY KEY,
| iban VARCHAR (20),
| pan VARCHAR (20),
| pin VARCHAR (4),
| cvv Int,
| expiring_date VARCHAR(20)
| 3 |
```



Introduccion de los datos en l tabla "credit_card"

```
"CCU-4667", "PT7955161B452454886142166", "3745 466677 72837", "2301", "738", "08/11/24");
"CCU-4667", "DOT186422775257585518595776", "3437 391826 27572", "4022", "581", "08/22/24");
"CCU-4688", "15381255756743611896271082", "347635882232257", "3159", "359", "01/07/26");
"CCU-4688", "15381255756743611896271082", "347635882232257", "3159", "359", "01/07/26");
"CCU-4695", "0744)2778435673160123888709", "375658773427717", "3297", "774", 10/08/23");
"CCU-4709", "0645584127369280160124", "455233 846716 4597", "4769", "237", "1747, "10/08/23");
"CCU-4709", "0645584127369280160124", "455233 846716 4597", "4769", "233", "11/04/25");
"CCU-4729", "F15242727302884255597261967", "546684 858147 5583", "4521", "997", "08/14/25");
"CCU-4739", "F15248793454336573", "3414 376437 29598", "7936", "243", "07/31/20");
"CCU-4739", "F15248793454336573", "3414 376437 29598", "7988", "988", "03/08/25");
"CCU-4739", "F15248793454336573", "3414 376437 29598", "7988", "088", "03/08/25");
"CCU-4739", "62541536648218872888", "373396758877399", "968", "088", "03/08/25");
"CCU-4744", AZ5875188617480603476368322", "535655735951122", "6209", "609", "10/12/21");
"CCU-4744", AZ5875188617480603476368322", "535655735951122", "6209", "609", "10/12/21");
"CCU-4755", "0851004/661469155288634", "3748466693428441", "5241", "537", "07/27/27");
"CCU-4759", "6593030315444184273232", "456 54485 22288 611", "1201", "552", "09/21/20");
"CCU-4779", "F151069231118971761", "513 92416 26286 445", "5241", "537", "07/27/27");
"CCU-4779", "F151069231118971761", "513 92416 26286 445", "5241", "537", "07/27/27");
"CCU-4779", "F151069231118971761", "513 92416 26286 445", "5241", "537", "07/27/27");
"CCU-480", "5151703140173167515", "5455 7952 5528 3322", "7375", "586", "585", "09/57/20");
"CCU-4808", "51570243452216436", "5455 7952 5528 3322", "3745", "5869", "696", "697", "04/07/22");
"CCU-4808", "51570243452215408", "5455 7952 5528 3322", "3745", "5869", "696", "697", "04/07/22");
"CCU-4808", "5157024334522161436", "4555 797688 75435 755", "5090", "119", "697/30");
"C
                              INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
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                              INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (
271 09:40:09 INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES (

    272 09:40:09 INSERT INTO credit_card (id. iban, pan, pin, cvv, expiring_date) VALUES ( "CcU-4835", PT34592171131763200132583", '3723 677744 2255... 1 row(s) affected

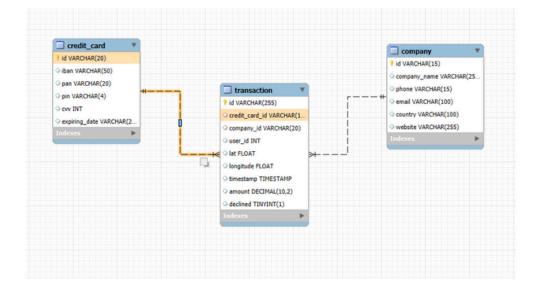
           273 (9/40/99 INSERT INTO credit_card (d. ban, pan, pin, cvv. expiring_date) VALUES ( CcU-4842, SA2155708591957118818229; 3774 636724 83259... 1 row(s) affected 274 (9/40/99 INSERT INTO credit_card (d. ban, pan, pin, cvv. expiring_date) VALUES ( CcU-4849; SE2813123487163628531121; S223363813491514... 1 row(s) affected
             275 09:40:09 INSERT INTO credit_card (d, lban, pan, pin, cvv, expiring_date) VALUES (
                                                                                                                                                                                                                          'CcU-4856', 'TR373872558313545667124286', '34952823571365... 1 row(s) affected
```

• Creacion de la clave foranea para conectar con la tabla "transaction"





• Diagrama donde se muestra la nueva relacion creada

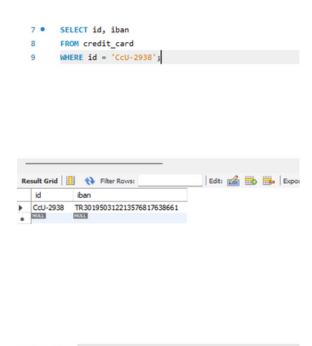


- En el diagrama se ven las relaciones entre las siguientes tablas:
- 1- La tabla "transaction" tiene relaciones de muchos a uno con la tabla "credit_card" a través de credit_card_id 2- La tabla "transaction" tiene relaciones de muchos a uno con la tabla "company" a través de company_id. Esto significa que muchas transacciones pueden estar asociadas a una misma tarjeta de crédito y a una misma compañía.

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.

Consulta para verificar el error en el dato a modificar:



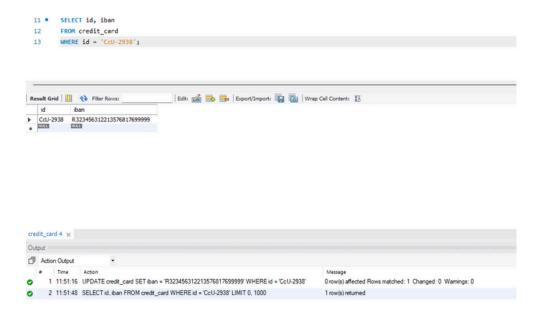


Realizo la actualizacion del dato solicitado por RRHH:

```
7 • UPDATE credit_card
8 SET iban = 'R323456312213576817699999'
9 WHERE id = 'CcU-2938';
10
11
```



Consulta nuevamente del id para confirmar la actualizacion:

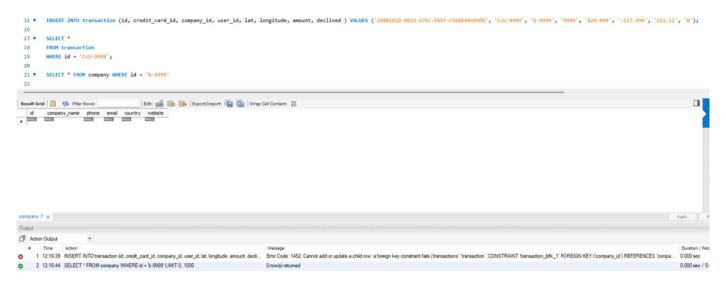


Ejercicio 3

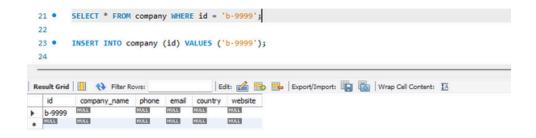
En la tabla "transaction" ingresa un nuevo usuario con la siguiente información:

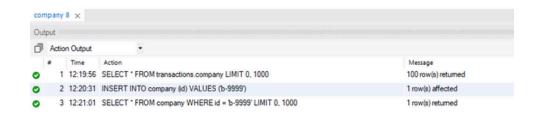
- Id 108B1D1D-5B23-A76C-55EF-C568E49A99DD
- credit_card_id CcU-9999
- company_id b-9999
- user_id 9999
- lato 829.999
- longitud -117.999
- amunt 111.11
- declined 0

Como el usuario 'b-9999' no existe en la tabla company, me da error al querer cargarlo directamente en la tabla "transaction", debido a una restricción de clave foránea. Así que primero creare el usuario en la tabla company y luego procedere a cargar los datos corresponientes en la tabla transaction.



Creacion del usuario 'b-9999' en la tabla company.



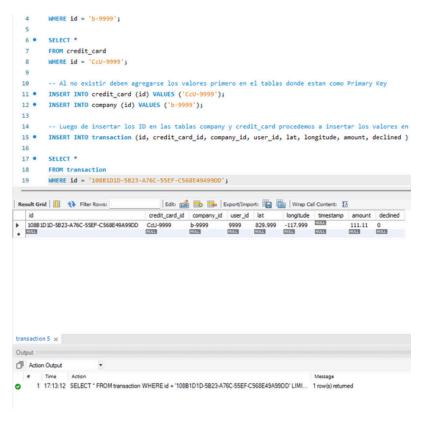


Creacion del usuario 'CcU-9999' en la tabla credit_card.



Carga de datos en la tabla transaction

Comprobamos que se hayan ingresado correctamente

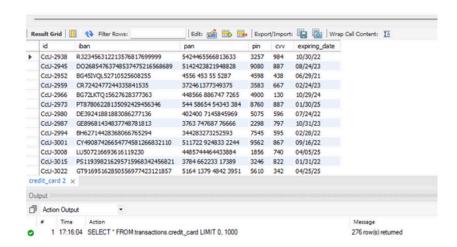


Ejercicio 4

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

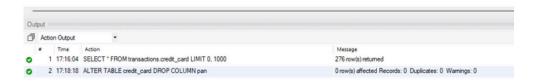
Antes de eliminar la columna "pan"

```
1 • SELECT * FROM transactions.credit_card;
```



Elimino la columna "pan"

```
1 • SELECT * FROM transactions.credit_card;
2
3 -- Eliminacion de la columna "pan"
4 • ALTER TABLE credit_card
5 DROP COLUMN pan;
```



Compruebo la eliminicaion de la columna "pan"

```
SELECT * FROM transactions.credit_card;

-- Eliminacion de la columna "pan"

ALTER TABLE credit_card

DROP COLUMN pan;

6
```

