

## Tasca S3.01. Manipulació de taules

Fecha 23/10/2025

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## Nivel 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\_introducir\_credit". Recorda mostrar el diagrama i realitzar una breu descripció d'aquest.

Documento **datos\_introducir\_sprint3\_credit.sql**

```
-- Insertamos datos de credit_card
INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-2938', 'TR3019503121213576817638661', '5424465566813633', '3257', '984', '10/30/22');
INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-2945', 'D026854763748537475216568689', '5142423821948828', '9080', '887', '08/24/23');
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 ('Ccu-2959', 'CR724277424335841535', '37246137349375', '3583', '667', '02/24/23');
INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-2966', 'BG72LKTQ528377363', '448566 886747 7265', '4900', '130', '10/29/24');
INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-2973', 'PT87806228135982429456346', '548 5654 54343 384', '8760', '887', '01/30/25');
```

Tras revisar el documento `dades_introduir_credit`, vemos que la tabla `credit_card` tiene siguientes variables:

1. **id** – el identificador de la tarjeta crédito, el tipo de *VARCHAR(15)*.
  2. **Iban** – un numero de cuenta bancaria vinculada a la tarjeta crédito, el tipo de *VARCHAR(50)*.
  3. **pan** - un número de la tarjeta que se encuentra impreso en el anverso (y a veces reverso) y que la identifica de forma única, el tipo de *VARCHAR(50)*.
  4. **pin** - un número de identificación personal de 4 dígitos que funciona como una clave secreta para autorizar transacciones, el tipo de *VARCHAR(4)*.
  5. **cvv** - un código de seguridad de 3 o 4 dígitos, el tipo de *VARCHAR(4)*.
  6. **expiring\_date** - La fecha de vencimiento de una tarjeta, el tipo de *VARCHAR(20)*.

Creamos la tabla **credit\_card**.

Sprint 3 Andrey Ismagilov x Sprint 2 Andrey Ismagilov SQL File 5\* SQL File 6\* SQL File 7\* SQL File 8\*

Dont Limit

```
3 ##### NIVEL 1 #####
4 # Exercici 1
5 # La teva tasca és dissenyar i crear una taula anomenada "credit_card" que emmagatzemi detalls crucials sobre les targetes de crèdit.
6 # La nova taula ha de ser capaç d'identificar de manera única cada targeta i establir una relació adequada amb les altres dues taules
7 # ("transaction" i "company"). Després de crear la taula serà necessari que ingressi la informació del document denominat
8 # "dades_introduir_credit". Recorda mostrar el diagrama i realitzar una breu descripció d'aquest.
9
10 -- Creamos la tabla credit_card
11 • CREATE TABLE IF NOT EXISTS credit_card (
12     id VARCHAR(15) PRIMARY KEY,
13     iban VARCHAR(50),
14     pan VARCHAR(50),
15     pin VARCHAR(4),
16     cvv VARCHAR(4), -- Creo que el tipo VARCHAR(4) será la mejor opción porque si el cvv se empieza por "0" o "00" se pierda los primeros
17     -- symbolos en caso de INT
18     expiring_date VARCHAR(20)
19 );
```

Miramos la lista de las tablas del esquema **transactions**

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree, which includes the 'transactions' schema. The main pane shows the results of the query 'SHOW TABLES;'. The results grid contains three rows: 'Tables\_in\_transactions', 'company', and 'credit\_card'. Below the grid, the 'Result 60' tab is open, showing the output of the 'credit\_card' table. The table has columns '#', 'Time', and 'Action'. One row is shown: '# 1 11:19:30 SHOW TABLES'. The status bar at the bottom right indicates '3 row(s) returned'.

y la lista de las columnas de la tabla `credit_card` creada.

Sprint 3 Andrey Ismagilov\* Sprint 2 Andrey Ismagilov SQL File 5\* SQL File 8\* SQL File 6\* SQL File 7\* SQL File 8\*

```
21
22 • SHOW COLUMNS FROM credit_card;
23
24
25
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor

Field	Type	Null	Key	Default	Extra
id	varchar(15)	NO	PRI	'NULL'	
iban	varchar(50)	YES		'NULL'	
pan	varchar(50)	YES		'NULL'	
pin	varchar(4)	YES		'NULL'	
cvv	varchar(4)	YES		'NULL'	
expiring_date	varchar(20)	YES		'NULL'	

Result 67 × Read Only

Output

#	Time	Action
1	13:52:03	SHOW COLUMNS FROM credit_card

Message  
6 row(s) returned

Insertamos datos del documento `datos_introducir_sprint3_credit.sql` en la tabla `credit_card`.

Sprint 3 Andrey Ismagilov\* Sprint 2 Andrey Ismagilov SQL File 5\* SQL File 8\* SQL File 6\* SQL File 7\* SQL File 8\*

```
1 -- Insertamos datos de credit_card
2 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2938', 'TR301950312213576817638661', '5424465566813633', '3257', '9880
3 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2945', 'D026854763748537475216568689', '5142423821948828', '9880
4 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2952', 'BG45IVQL52710525608255', '4556 453 55 5287', '4598', '43
5 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2959', 'CR7242477244335841535', '372461377349375', '3583', '667
6 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2966', 'BG72LKTQ15627628377363', '448566 886747 7265', '4900', '8760
7 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2973', 'PT87806228135092429456346', '544 58654 54343 384', '8760
8 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2980', 'DE39241881883086277136', '402400 7145845969', '5075', '5
9 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2987', 'GE89681434837748781813', '3763 747687 76666', '2298', '7
10 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-2994', 'BH62714428368066765294', '344283273252593', '7545', '595
11 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-3001', 'CY49087426654774581266832110', '511722 924833 2244', '95
12 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-3008', 'LU5072166993616119230', '4485744464433884', '1856', '740
13 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcU-3015', 'DE1102082167057108027111', '3784 6C0023 17280' ...)
```

Output

#	Time	Action
4989	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9570', 'XX6339420102582861...')
4990	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9571', 'XX4849153824371419...')
4991	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9572', 'XX4054481862697303...')
4992	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9573', 'XX9653389310530889...')
4993	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9574', 'XX6627617583614326...')
4994	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9575', 'XX4998812160736265...')
4995	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9576', 'XX5297109305877126...')
4996	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9577', 'XX1589140785948086...')
4997	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9578', 'XX9915396464561105...')
4998	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9579', 'XX2963930915871702...')
4999	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9580', 'XX7812588898519508...')
5000	11:25:30	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('CcS-9581', 'XX9156705164053881...')

Message  
5000 row(s) returned

Vemos que la tabla `credit_card` tiene 5000 registros.

Sprint 3 Andrey Ismagilov\* Sprint 2 Andrey Ismagilov SQL File 5\* SQL File 8\* SQL File 6\* SQL File 7\* SQL File 8\*

```
20
21 • SELECT *
22 FROM credit_card;
23
24
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Fetch rows: Result Grid Form Editor Field Types Query Stats

id	iban	pan	pin	cvv	expiring_date
CcS-4857	XX4857591835292505850771	2314242385113924	1819	467	09/27/25
CcS-4858	XX8581768137002436094025	6582720299715533	3964	817	12/28/28
CcS-4859	XX7826930491423553609370	8861684536289642	4983	277	11/26/26
CcS-4860	XX555990368835304645299	2481155515498459	6876	661	07/27/27
CcS-4861	XX2035182877195191627307	1308930301149557	5710	398	04/25/26
CcS-4862	XX4774721462463645409758	6715617009807829	4042	174	11/27/26
CcS-4863	XX1476829664245046207111	3140879819451394	5969	449	12/27/29
CcS-4864	XX8380298893385731196159	5793672133649114	8481	139	02/28/26
CcS-4865	XX708507859610125280599	5101552687251312	7847	903	11/25/28
CcS-4866	XX4792859188206596406839	8080768801072613	9271	961	02/28/25
CcS-4867	XX6038298816319374853717	7761849537661098	4820	862	11/30/25
CcS-4868	XX3929101617300533068044	4160419663151801	6860	549	08/25/25
CcS-4869	XX1566712096111513886465	5892930716233310	4775	448	09/29/25
CcS-4870	XX6443663804167732133949	2227240879956178	5872	715	01/25/25

credit\_card 62 × Apply Revert

Output

#	Time	Action
1	11:27:41	SELECT * FROM credit_card

Message  
5000 row(s) returned

Vinculamos la variable **id** de la tabla **credit\_card** con la **credit\_card\_id** de la tabla **transaction**, creando **FOREIGN KEY** en la tabla **transaction**.

```
Sprint 3 Andrey Ismagilov x sprint 3 help
[...] | Dont Limit | Output | Action Output | # | Time | Action | Message
31 -- Vinculamos la variable "id" de la tabla "credit_card" con la "credit_card_id" de la tabla "transaction",
32 -- creando FOREIGN KEY en la tabla "transaction".
33 • ALTER TABLE transaction
34 ADD CONSTRAINT fk_transaction_credit_card_id
35 FOREIGN KEY (credit_card_id)
36 REFERENCES credit_card(id);
37

Output:
Action Output
# Time Action
1 14:06:50 ALTER TABLE transaction ADD CONSTRAINT fk_transaction_credit_card_id FOREIGN KEY (credit_card_id) R... 100000 row(s) affected Records: 100000 Duplicates: 0 Warnings: 0
```

El “constraint” **fk\_transaction\_credit\_card\_id** se ha creado.

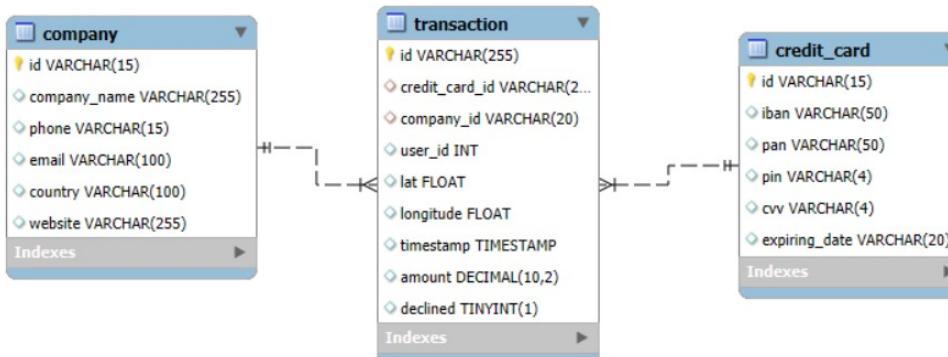
```
Sprint 3 Andrey Ismagilov x sprint 3 help
[...] | Dont Limit | Output | Action Output | # | Time | Action | Message
38 • SELECT
39     table_name,
40     column_name,
41     constraint_name,
42     referenced_table_name,
43     referenced_column_name
44
45 FROM INFORMATION_SCHEMA.KEY_COLUMN_USAGE
46 WHERE
47     referenced_table_schema = 'transactions'
48     AND referenced_table_name = 'credit_card';
49

Result Grid | Filter Rows: _____ | Export: | Wrap Cell Content: |


| TABLE_NAME  | COLUMN_NAME    | CONSTRAINT_NAME               | REFERENCED_TABLE_NAME | REFERENCED_COLUMN_NAME |
|-------------|----------------|-------------------------------|-----------------------|------------------------|
| transaction | credit_card_id | fk_transaction_credit_card_id | credit_card           | id                     |


Result Grid | Read Only | # | Time | Action | Message
1 14:09:13 SELECT table_name, column_name, constraint_name, referenced_table_name, referenced_colu... 1 row(s) returned
```

Hemos creado la nueva tabla **credit\_card** y luego hemos vinculado el variable **id(PK)** de la tabla creada con la variable **credit\_card\_id(FK)** de la tabla **transaction**. La **credit\_card** y la **transaction** tienen la relación 1 a N.



## Exercici 2

El departament de Recursos Humans ha identificat un error en el número de compte associat a la targeta de crèdit amb ID CcU-2938. La informació que ha de mostrarse per a aquest registre és: TR323456312213576817699999. Recorda mostrar que el canvi es va realitzar.

El **iban** asociado a la tarjeta de crédito con ID CcU-2938.

Sprint 3 Andrey Ismagilov × sprint 3 help

```
54 •  SELECT *
55   FROM credit_card
56  WHERE id = 'CcU-2938';
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid

	id	iban	pan	pin	cvv	expiring_date
▶	CcU-2938	TR301950312213576817638661	5424465566813633	3257	984	10/30/22
*	NULL	NULL	NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action
1	14:39:37	SELECT * FROM credit_card WHERE id = 'CcU-2938'

Message

1 row(s) returned

Cambiamoslo por el nuevo TR323456312213576817699999.

Sprint 3 Andrey Ismagilov × sprint 3 help

```
57
58 •  UPDATE credit_card
59   SET iban = 'TR323456312213576817699999'
60  WHERE id = 'CcU-2938';
61
```

Output

Action Output

#	Time	Action
1	14:44:19	UPDATE credit_card SET iban = 'TR323456312213576817699999' WHERE id = 'CcU-2938'

Message

1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

El cambio realizado.

Sprint 3 Andrey Ismagilov × sprint 3 help

```
61
62 •  SELECT *
63   FROM credit_card
64  WHERE id = 'CcU-2938';
65
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid

	id	iban	pan	pin	cvv	expiring_date
▶	CcU-2938	TR323456312213576817699999	5424465566813633	3257	984	10/30/22
*	NULL	NULL	NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action
1	14:48:20	SELECT * FROM credit_card WHERE id = 'CcU-2938'

Message

1 row(s) returned

### Exercici 3

En la taula "transaction" ingressa una nova transacció amb la següent informació:

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

La tabla **transaction** esta relacionada con las tablas **company** y **credit\_card**.

Por eso antes de insertar la nueva transaccion hay que comprobar que la variable **id** de la tabla **company** no tiene el valor '**b-9999**'.

```
Sprint 3 Andrey Ismagilov* | sprint 3 help
77
78 •   SELECT *
79     FROM company
80     WHERE id = 'b-9999';
81
```

The screenshot shows the MySQL Workbench interface with a query editor window. The query is:

```
SELECT * FROM company WHERE id = 'b-9999';
```

The result grid shows one row returned:

id	company_name	phone	email	country	website
NULL	NULL	NULL	NULL	NULL	NULL

The output pane shows the message: "0 row(s) returned".

y la variable **id** de la tabla **credit\_card** no tiene el valor '**CcU-9999**'.

```
Sprint 3 Andrey Ismagilov* | sprint 3 help
82 --
83 •   SELECT *
84     FROM credit_card
85     WHERE id = 'CcU-9999';
86
```

The screenshot shows the MySQL Workbench interface with a query editor window. The query is:

```
SELECT * FROM credit_card WHERE id = 'CcU-9999';
```

The result grid shows one row returned:

id	iban	pan	pin	cvv	expiring_date
NULL	NULL	NULL	NULL	NULL	NULL

The output pane shows the message: "0 row(s) returned".

Inseratamos la nueva empresa con **id b-9999** en la tabla **company**, la nueva tarjeta credito con **id CcU-9999** en la tabla **credit\_card** y luego la nueva transaccion en la tabla **transaction** con **id 108B1D1D-5B23-A76C-55EF-C568E49A99DD**.

```
Sprint 3 Andrey Ismagilov* | sprint 3 help
87 -- Insertamos en la tabla "credit_card" el valor nuevo del "id" de la tarjeta credito nueva
88 •   INSERT INTO credit_card (id) VALUES ('CcU-9999');
89
90 -- Insertamos en la tabla "company" el valor de "id" de la empresa nueva
91 •   INSERT INTO company (id) VALUES ('b-9999');
92
93 •   INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, amount, declined)
94     VALUES ('108B1D1D-5B23-A76C-55EF-C568E49A99DD', 'CcU-9999', 'b-9999', 9999, 829.999, -117.999, 111.11, 0);
95
96 •   SELECT *
97     FROM transaction
98     WHERE id = '108B1D1D-5B23-A76C-55EF-C568E49A99DD';
99
```

The screenshot shows the MySQL Workbench interface with a query editor window containing the full sequence of queries. The result grid shows the inserted data:

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
108B1D1D-5B23-A76C-55EF-C568E49A99DD	CcU-9999	b-9999	9999	829.999	-117.999	NULL	111.11	0

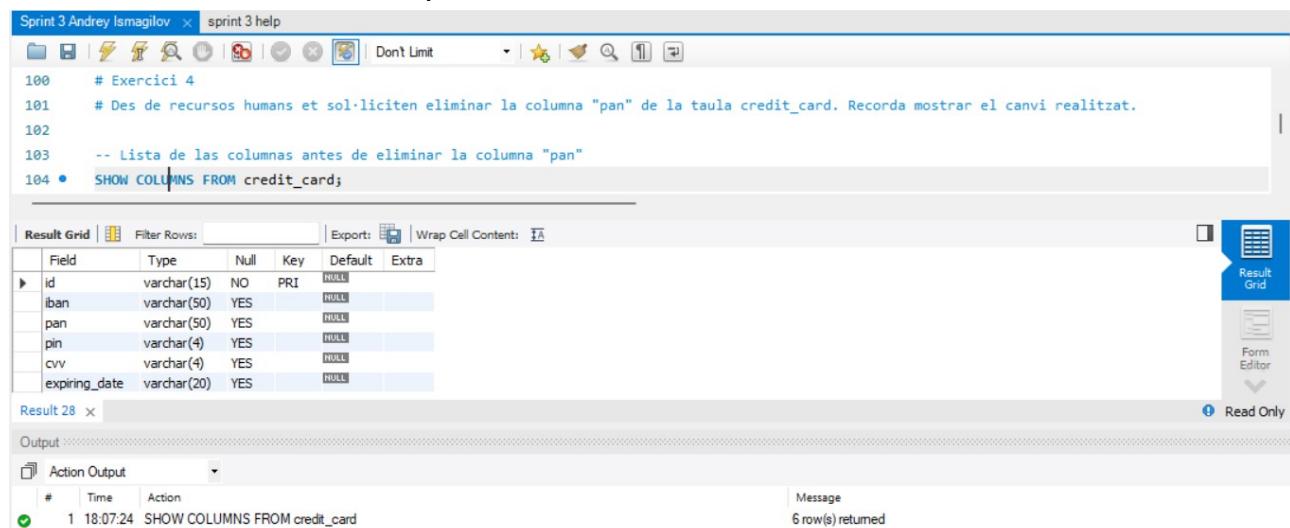
The output pane shows the log of actions:

#	Time	Action	Message
1	15:17:36	INSERT INTO credit_card (id) VALUES ('CcU-9999')	1 row(s) affected
2	15:17:41	INSERT INTO company (id) VALUES ('b-9999')	1 row(s) affected
3	15:17:46	INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, amount, declined) VALUES (...)	1 row(s) affected
4	15:18:04	SELECT * FROM transaction WHERE id = '108B1D1D-5B23-A76C-55EF-C568E49A99DD'	1 row(s) returned

#### Exercici 4

Des de recursos humans et sol·liciten eliminar la columna "pan" de la taula credit\_card. Recorda mostrar el canvi realitzat.

Lista de columnas antes de eliminar la pan.



```
Sprint 3 Andrey Ismagilov × sprint 3 help
100  # Exercici 4
101  # Des de recursos humans et sol·liciten eliminar la columna "pan" de la taula credit_card. Recorda mostrar el canvi realitzat.
102
103  -- Lista de las columnas antes de eliminar la columna "pan"
104 • SHOW COLUMNS FROM credit_card;
```

Field	Type	Null	Key	Default	Extra
id	varchar(15)	NO	PRI	NULL	
iban	varchar(50)	YES		NULL	
pan	varchar(50)	YES		NULL	
pin	varchar(4)	YES		NULL	
cvv	varchar(4)	YES		NULL	
expiring_date	varchar(20)	YES		NULL	

Result 28 ×

Output:

Action Output

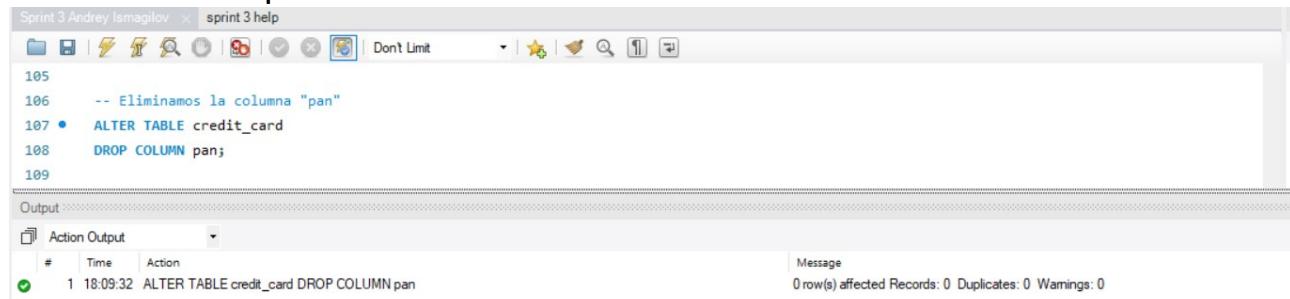
#	Time	Action
1	18:07:24	SHOW COLUMNS FROM credit_card

Message

6 row(s) returned

Read Only

Eliminamos la columna pan.



```
Sprint 3 Andrey Ismagilov × sprint 3 help
105
106  -- Eliminamos la columna "pan"
107 • ALTER TABLE credit_card
108  DROP COLUMN pan;
109
```

Output:

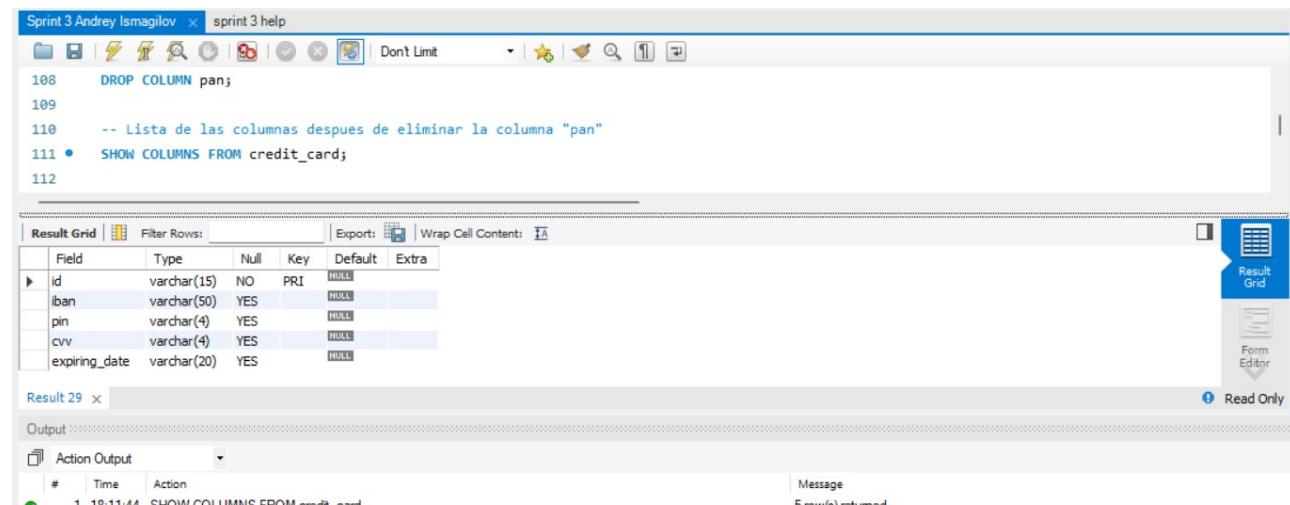
Action Output

#	Time	Action
1	18:09:32	ALTER TABLE credit_card DROP COLUMN pan

Message

0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

Lista de columnas despues de eliminarla.



```
Sprint 3 Andrey Ismagilov × sprint 3 help
108  DROP COLUMN pan;
109
110  -- Lista de las columnas despues de eliminar la columna "pan"
111 • SHOW COLUMNS FROM credit_card;
112
```

Field	Type	Null	Key	Default	Extra
id	varchar(15)	NO	PRI	NULL	
iban	varchar(50)	YES		NULL	
pin	varchar(4)	YES		NULL	
cvv	varchar(4)	YES		NULL	
expiring_date	varchar(20)	YES		NULL	

Result 29 ×

Output:

Action Output

#	Time	Action
1	18:11:44	SHOW COLUMNS FROM credit_card

Message

5 row(s) returned

Read Only

## Nivel 2

### Exercici 1

Elimina de la taula transaction el registre amb ID 000447FE-B650-4DCF-85DE-C7ED0EE1CAAD de la base de dades.

Buscamos la transaccion.

Sprint 3 Andrey Ismagilov x sprint 3 help

```
113 ##### NIVEL 2 #####
114 # Exercici 1
115 # Elimina de la taula transaction el registre amb ID 000447FE-B650-4DCF-85DE-C7ED0EE1CAAD de la base de dades.
116
117 • SELECT *
118   FROM transaction
119   WHERE id = '000447FE-B650-4DCF-85DE-C7ED0EE1CAAD';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
000447FE-B650-4DCF-85DE-C7ED0EE1CAAD	Cc5-5019	b-2370	438	41.5972	12.2218	2016-12-21 20:07:18	155.63	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action	Message
1	18:15:41	SELECT * FROM transaction WHERE id = '000447FE-B650-4DCF-85DE-C7ED0EE1CAAD'	1 row(s) returned

Eliminamosla.

Sprint 3 Andrey Ismagilov x sprint 3 help

```
121 • DELETE FROM transaction
122   WHERE id = '000447FE-B650-4DCF-85DE-C7ED0EE1CAAD';
123
124 • SELECT *
125   FROM transaction
126   WHERE id = '000447FE-B650-4DCF-85DE-C7ED0EE1CAAD';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action	Message
1	18:18:21	DELETE FROM transaction WHERE id = '000447FE-B650-4DCF-85DE-C7ED0EE1CAAD'	1 row(s) affected
2	18:18:29	SELECT * FROM transaction WHERE id = '000447FE-B650-4DCF-85DE-C7ED0EE1CAAD'	0 row(s) returned

### Exercici 2

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.

Sprint 3 Andrey Ismagilov x sprint 3 help

```
128 # Exercici 2
129 # La secció de màrqueting desitja tenir accés a informació específica per a realitzar anàlisi i estratègies efectives.
130 # S'ha sol·licitat crear una vista que proporcioni detalls clau sobre les companyies i les seves transaccions.
131 # Serà necessària que creïs una vista anomenada VistaMarketing que contingui la següent informació:
132 # Nom de la companyia. Telèfon de contacte. País de residència. Mitjana de compra realitzat per cada companyia.
133 # Presenta la vista creada, ordenant les dades de major a menor mitjana de compra.
134
135 • CREATE VIEW VistaMarketing AS
136   SELECT c.company_name, c.phone, c.country, ROUND(AVG(t.amount), 2) AS media_ventas
137   FROM transaction t
138   JOIN company c
139   ON t.company_id = c.id
140   WHERE t.declined = 0
141   GROUP BY c.id, c.country;
142
```

Output

Action Output

#	Time	Action	Message
1	10:20:32	CREATE VIEW VistaMarketing AS SELECT c.company_name, c.phone, c.country, ROUND(AVG(t.amount), 2) A...	0 row(s) affected

La vista **VistaMarketing** ordenada por la media de ventas de manera descendente.

```
Sprint 3 Andrey Ismagilov* × sprint 3 help
143
144 •   SELECT * FROM vistamarketing
145     ORDER BY media_ventas DESC;
146
147
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

company_name	phone	country	media_ventas
Viverra Donec Foundation	03 33 12 32 73	United Kingdom	257.95
Vestibulum Lorem PC	02 02 87 33 40	Belgium	264.16
Ut Semper Foundation	01 60 36 33 06	Sweden	264.73
Urna Convallis Associates	06 01 24 77 04	United States	273.57
Turpis Company	09 69 48 65 52	Netherlands	261.53
Tristique Neque Venenatis I...	04 34 85 12 85	Sweden	255.60

Output:

Action Output

#	Time	Action
1	10:22:01	SELECT * FROM vistamarketing ORDER BY media_ventas DESC

Message: 101 row(s) returned

### Exercici 3

Filtrar la vista **VistaMarketing** per a mostrar només les companyies que tenen el seu país de residència en "Germany".

```
Sprint 3 Andrey Ismagilov* × sprint 3 help
148 # Exercici 3
149 # Filtra la vista VistaMarketing per a mostrar només les companyies que tenen el seu país de residència en "Germany"
150
151 •   SELECT *
152     FROM vistamarketing
153     WHERE country = "Germany";
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

company_name	phone	country	media_ventas
Ac Fermentum Incorporated	06 85 56 52 33	Germany	284.91
Convallis In Incorporated	06 66 57 29 50	Germany	257.69
Nunc Interdum Incorporated	05 18 15 48 13	Germany	259.32
Augue Foundation	06 88 43 15 63	Germany	253.56
Ac Industries	09 34 65 40 60	Germany	255.17
Auctor Mauris Corp.	05 62 87 14 41	Germany	254.68
Aliquam PC	01 45 73 52 16	Germany	252.96
Rutrum Non Inc.	02 66 31 61 09	Germany	255.14

vistamarketing 37 × Read Only

Action Output

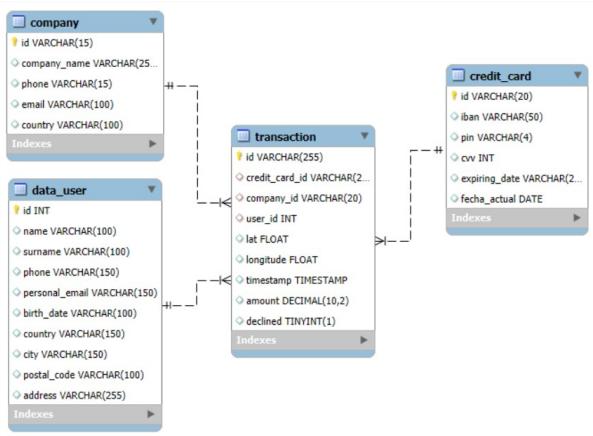
#	Time	Action
1	10:29:43	SELECT * FROM vistamarketing WHERE country = "Germany"

Message: 8 row(s) returned

## Nivel 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:



Documento **datos\_introducir\_sprint3\_user.sql**

```
INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('151', 'Meghan', 'Hayden', '0800 746 6747', 'arcu.vel@hotmail.com', '2, 1980', 'United Kingdom', 'London', 'EC1A 1BB', 'Ap #432-4493 Aliquet Rd.');?>
INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('152', 'Hakeem', 'Alford', '(0111) 367 0184', 'adipiscing.ligula@google.edu', 'Sep 30, 1979', 'United Kingdom', 'Birmingham', 'B1 1AA', '551-8930 Lobortis Street');?>
INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('153', 'Keegan', 'Pugh', '(016977) 3851', 'sodales.nisi@acme.com', '27, 1994', 'United Kingdom', 'London', 'EC1A 1BB', 'Ap #312-5898 Consectetuer St.');?>
INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('154', 'Cooper', 'Bullock', '(021) 2521 6627', 'et@outlook.com', '1986', 'United Kingdom', 'Manchester', 'M1 1AE', '872-1866 Pede Rd.');?>
INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('155', 'Joshua', 'Russell', '055 4409 5286', 'justo.nec.ante@outlook.edu', 'Jan 23, 1984', 'United Kingdom', 'Manchester', 'M1 1AE', 'Ap #285-4727 Auctor. Av.');?>
INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('156', 'Remedios', 'Case', '055 3114 1566', 'mnalis.nhasellu.libero@aol.com', 'Oct 9, 1994', 'United Kingdom', 'Liverpool', 'L1 1AA', '479-3690 Turnis Road');
```

Paso 1. Creamos la tabla **user**.

```
Sprint 3 Andrey Ismagilov * sprint 3 help
155 ##### NIVEL 3 #####
156 # Exercici 1
157 # La setmana vinent tindràs una nova reunió amb els gerents de màrqueting.
158 # Un company del teu equip va realitzar modificacions en la base de dades, però no recorda com les va realitzar.
159 # Et demana que l'ajudis a deixar els comandos executats per a obtenir el següent diagrama:
160
161 -- Creamos la tabla "user"
162 • CREATE TABLE IF NOT EXISTS user (
163     id CHAR(10) PRIMARY KEY,
164     name VARCHAR(100),
165     surname VARCHAR(100),
166     phone VARCHAR(150),
167     email VARCHAR(150),
168     birth_date VARCHAR(100),
169     country VARCHAR(150),
170     city VARCHAR(150),
171     postal_code VARCHAR(100),
172     address VARCHAR(255)
173 );
```

Paso 2. Insertamos datos del documento **datos\_introducir\_sprint3\_user.sql** en la tabla **credit\_card**.

```
Sprint 3 Andrey Ismagilov * sprint 3 help * datos introducir sprint3 user
1 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('151', 'Meghan', 'Hayden', '0800 746 6747', 'arcu.vel@hotmail.com', '2, 1980', 'United Kingdom', 'London', 'EC1A 1BB', 'Ap #432-4493 Aliquet Rd.');?>
2 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('152', 'Hakeem', 'Alford', '(0111) 367 0184', 'adipiscing.ligula@google.edu', 'Sep 30, 1979', 'United Kingdom', 'Birmingham', 'B1 1AA', '551-8930 Lobortis Street');?>
3 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('153', 'Keegan', 'Pugh', '(016977) 3851', 'sodales.nisi@acme.com', '27, 1994', 'United Kingdom', 'London', 'EC1A 1BB', 'Ap #312-5898 Consectetuer St.');?>
4 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('154', 'Cooper', 'Bullock', '(021) 2521 6627', 'et@outlook.com', '1986', 'United Kingdom', 'Manchester', 'M1 1AE', '872-1866 Pede Rd.');?>
5 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('155', 'Joshua', 'Russell', '055 4409 5286', 'justo.nec.ante@outlook.edu', 'Jan 23, 1984', 'United Kingdom', 'Manchester', 'M1 1AE', 'Ap #285-4727 Auctor. Av.');?>
6 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ('156', 'Remedios', 'Case', '055 3114 1566', 'mnalis.nhasellu.libero@aol.com', 'Oct 9, 1994', 'United Kingdom', 'Liverpool', 'L1 1AA', '479-3690 Turnis Road');
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```

## La tabla user tiene 5000 filas.

Sprint 3 Andrey Ismagilov × sprint 3 help datos introducir sprint3 user

```
175 • SELECT *
176 FROM user;
```

**Result Grid**

	id	name	surname	phone	email	birth_date	country	city	postal_code	address
▶	1	Zeus	Gamble	1-282-581-0551	interdum.enim@protonmail.edu	Nov 17, 1985	United States	New York	10001	348-7818 Sagittis St.
	10	Robert	Mccarthy	(324) 746-6771	fermentum.varius@protonmail.com	Apr 30, 1984	United States	San Jose	95101	P.O. Box 773
	100	Melodie	Mclean	1-677-221-7152	risus.varius@google.ca	Sep 15, 1989	United States	San Jose	95101	Ap #644-8492 Sagittis St.
	1000	Amlkrv	Qbulrbp	+48-258-9936	amkrv.qbulrbp@example.com	May 17, 1970	Germany	Stuttgart	70173	215 Qbulrbp St
	1001	Nfvrhb	Ovdawbwa	+94-121-2522	nfvrhb.ovdawbwa@example.com	Mar 4, 1994	Germany	Cologne	50667	121 Ovdawbwa St

user 40 ×

**Output**

**Action Output**

#	Time	Action	Message
1	11:08:57	SELECT * FROM user	5000 row(s) returned

## Paso 3. Renombramos la tabla user a la data\_user.

Sprint 3 Andrey Ismagilov × sprint 3 help datos introducir sprint3 user SQL File 6\*

```
178 -- Renombramos la tabla "user" a "data_user"
179 • RENAME TABLE user TO data_user;
180 • SHOW TABLES;
181
182
```

**Result Grid**

	Tables_in_transactions
▶	company
	credit_card
	data_user
	transaction
	vistamarketing

Result 41 ×

**Output**

**Action Output**

#	Time	Action	Message
1	11:13:30	RENAME TABLE user TO data_user	0 row(s) affected
2	11:14:43	SHOW TABLES	5 row(s) returned
3	11:15:32	SHOW TABLES	5 row(s) returned

## Paso 4. Modificamos el tipo de la variable id de CHAR(10) a INT.

Sprint 3 Andrey Ismagilov × sprint 3 help datos introducir sprint3 user SQL File 6\*

```
183 -- Modificamos el tipo de la variable "id" de CHAR(10) a INT.
184 • ALTER TABLE data_user MODIFY COLUMN id INT;
185 • SHOW COLUMNS FROM data_user;
186
187
```

**Result Grid**

Field	Type	Null	Key	Default	Extra
▶ id	int	NO	PRI	HULL	
name	varchar(100)	YES		HULL	
surname	varchar(100)	YES		HULL	
phone	varchar(150)	YES		HULL	
email	varchar(150)	YES		HULL	
birth_date	varchar(100)	YES		HULL	
country	varchar(150)	YES		HULL	
city	varchar(150)	YES		HULL	
postal_code	varchar(100)	YES		HULL	
address	varchar(255)	YES		HULL	

Result 43 ×

**Output**

**Action Output**

#	Time	Action	Message
1	11:19:09	ALTER TABLE data_user MODIFY COLUMN id INT	5000 row(s) affected Records: 5000 Duplicates: 0 Warnings: 0
2	11:19:13	SHOW COLUMNS FROM data_user	10 row(s) returned

Paso 5. Vinculamos la columna **id** de la tabla **data\_user** con la **user\_id** de la tabla **transaction**, creando **Foreign Key** en la tabla **transaction**.

Vemos, que no se puede crear **FK** porque antes hemos agregado la nueva transaccion con el **user\_id = 9999**. Por lo tanto debemos que agregar el user nuevo con el valor de **id 9999** en la tabla **data\_user**.

Sprint 3 Andrey Ismagilov\* | sprint 3 help | datos introducir sprint3 user | SQL File 6\*

```
188
189 • ALTER TABLE transaction
190   ADD CONSTRAINT fk_transaction_user_id
191   FOREIGN KEY (user_id)
192   REFERENCES data_user(id);
193
```

Output:

Action Output	#	Time	Action	Message
	1	11:23:53	ALTER TABLE transaction ADD CONSTRAINT fk_transaction_user_id FOREIGN KEY (user_id) REFERENCES ...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (transaction)

Insertamoslo en la tabla **data\_user**.

Sprint 3 Andrey Ismagilov\* | sprint 3 help | datos introducir sprint3 user | SQL File 6\*

```
194 # Se ve, que no se puede crear la FK porque antes hemos agregado la nueva transaccion con el "user_id" = 9999.
195 # Por lo tanto debemos que agregar el user nuevo con el valor de "id" 9999 en la tabla "data_user".
196 • INSERT INTO data_user (id) VALUES (9999);
197
```

Output:

Action Output	#	Time	Action	Message
	1	11:23:53	ALTER TABLE transaction ADD CONSTRAINT fk_transaction_user_id FOREIGN KEY (user_id) REFERENCES ...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (transaction)
	2	11:32:18	INSERT INTO data_user (id) VALUES (9999)	1 row(s) affected

Ahora creamos la FK en la tabla **transaction**.

Sprint 3 Andrey Ismagilov\* | sprint 3 help | datos introducir sprint3 user | SQL File 6\*

```
198 # Ahora creamos la FK en la tabla "transaction"
199 • ALTER TABLE transaction
200   ADD CONSTRAINT fk_transaction_user_id
201   FOREIGN KEY (user_id)
202   REFERENCES data_user(id);
203 -- Vamos a mirar todas las FK creadas
204 • SELECT
205   table_name,
206   column_name,
207   constraint_name,
208   referenced_table_name,
209   referenced_column_name
210 FROM
211   INFORMATION_SCHEMA.KEY_COLUMN_USAGE
212 WHERE
213   referenced_table_schema = 'transactions' ;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

TABLE_NAME	COLUMN_NAME	CONSTRAINT_NAME	REFERENCED_TABLE_NAME	REFERENCED_COLUMN_NAME
transaction	credit_card_id	fk_transaction_credit_card_id	credit_card	id
transaction	user_id	fk_transaction_user_id	data_user	id
transaction	company_id	transaction_ibfk_1	company	id

KEY\_COLUMN\_USAGE 44 ×

Output:

Action Output	#	Time	Action	Message
	1	11:34:22	ALTER TABLE transaction ADD CONSTRAINT fk_transaction_user_id FOREIGN KEY (user_id) REFERENCES...	100000 row(s) affected Records: 100000 Duplicates: 0 Warnings: 0
	2	11:34:48	SELECT table_name, column_name, constraint_name, referenced_table_name, referenced_colu... 3 row(s) returned	

Paso 6. Cambiamos el tipo de la variable **id** de la tabla **credit\_card** de **VARCHAR(15)** a **VARCHAR(20)**.

Sprint 3 Andrey Ismagilov\* | sprint 3 help | datos introducir sprint3 user | SQL File 6\*

```
214
215 -- Cambiamos el tipo de la columna "id" en la tabla "credit_card" de VARCHAR(15) a VARCHAR(20).
216 • ALTER TABLE credit_card MODIFY id VARCHAR(20);
217
```

Output:

Action Output	#	Time	Action	Message
	1	11:49:12	ALTER TABLE credit_card MODIFY id VARCHAR(20)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

Paso 7. Cambiamos el tipo de la columna **id** de la tabla **company** de **VARCHAR(15)** a **VARCHAR(20)** para que la **id** tenga el tipo igual a la **company\_id** de tabla **transaction**.

```
Sprint 3 Andrey Ismagilov  x  sprint 3 help  datos introducir sprint3 user  SQL File 6*
217
218 -- Cambiamos el tipo de la columna "id" de la tabla "company" de VARCHAR(15) a VARCHAR(20) para que la "id" tenga el tipo igual que la
219 -- "company_id" de la tabla "transaction".
220 • ALTER TABLE company MODIFY id VARCHAR(20);
221

Output:
Action Output
# Time Action
1 12:02:44 ALTER TABLE company MODIFY id VARCHAR(20)

Message
0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
```

Paso 8. Renombramos la columna **email** de la tabla **data\_user** a la **personal\_email**.

```
Sprint 3 Andrey Ismagilov  x  sprint 3 help  datos introducir sprint3 user  SQL File 6*
222 -- Renombramos la columna "email" de la tabla "data_user" a la "personal_email"
223 • ALTER TABLE data_user
224 RENAME COLUMN email TO personal_email;

Output:
Action Output
# Time Action
1 12:13:58 ALTER TABLE data_user RENAME COLUMN email TO personal_email

Message
0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
```

Paso 9. Por ultimo, creamos la nueva columna **fecha\_actual** del tipo **DATE** en la tabla **credit\_card**.

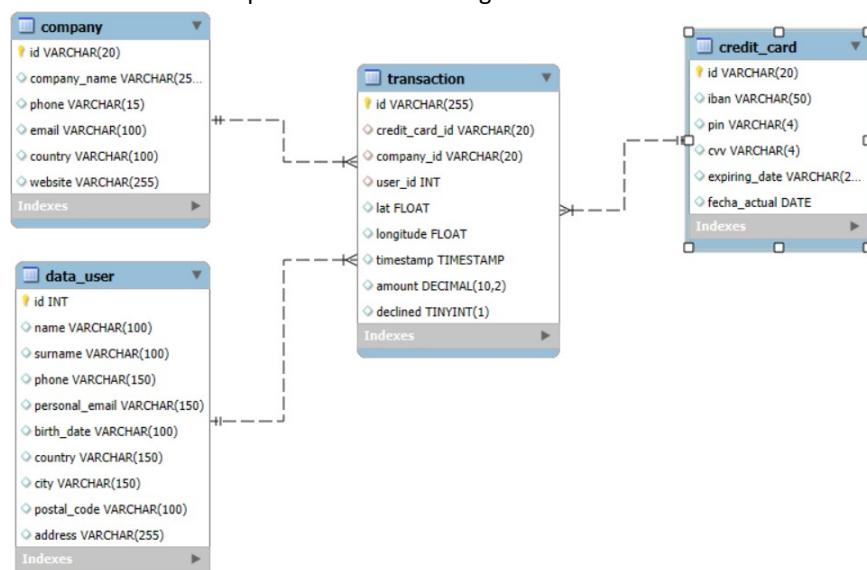
```
Sprint 3 Andrey Ismagilov  x  sprint 3 help  datos introducir sprint3 user  SQL File 6*
227 • ALTER TABLE credit_card
228 ADD fecha_actual DATE;
229
230 -- ALTER TABLE credit_card
231 -- ADD fecha_actual DATETIME DEFAULT now();
232 -- ALTER TABLE credit_card
233 -- MODIFY COLUMN fecha_actual DATE;
234
235 • SHOW COLUMNS FROM credit_card;
236

Result Grid | Filter Rows:  | Export:  | Wrap Cell Content:  |
Field Type Null Key Default Extra
id varchar(20) NO PRI NULL
iban varchar(50) YES NULL
pin varchar(4) YES NULL
cvv varchar(4) YES NULL
expiring_date varchar(20) YES NULL
fecha_actual date YES NULL

Result 48 ×
Output:
Action Output
# Time Action
1 12:34:55 ALTER TABLE credit_card ADD fecha_actual DATE
2 12:34:58 SHOW COLUMNS FROM credit_card

Message
0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
6 row(s) returned
```

Al final tenemos la esquema **transactions** siguiente:



Deberia decir que no he modificado el tipo de la variable **cvv** de la tabla **credit\_card** a **INT** porque podamos perder la informacion si el valor de cvv tenga uno, dos o tres "0" al principio.

## Exercici 2

L'empresa també us demana 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.
- Assegureu-vos d'incloure informació rellevant de les taules que coneixereu i utilitzeu àlies per canviar de nom columnes segons calgui.

Mostra els resultats de la vista, ordena els resultats de forma descendente en funció de la variable ID de transacció.

Creamos la vista **InformeTecnico**.

```
Sprint 3 Andrey Ismagilov  ×  sprint 3 help*  datos introducir sprint3 user  SQL File 6*
```

236  
237 # Exercici 2  
238 # L'empresa també us demana crear una vista anomenada "InformeTecnico" que contingui la següent informació:  
239 # ID de la transacció  
240 # Nom de l'usuari/ària  
241 # Cognom de l'usuari/ària  
242 # IBAN de la targeta de crèdit usada.  
243 # Nom de la companyia de la transacció realitzada.  
244 # Assegureu-vos d'incloure informació rellevant de les taules que coneixereu i utilitzeu àlies per canviar de nom columnes segons calgui.  
245 # Mostra els resultats de la vista, ordena els resultats de forma descendente en funció de la variable ID de transacció.  
246  
247 • CREATE VIEW InformeTecnico AS  
248 SELECT t.id AS transaction\_id, u.name AS cust\_name, u.surname AS cust\_surname, cc.iban AS cust\_iban, c.company\_name AS seller\_company  
249 FROM transaction t  
250 JOIN data\_user u  
251 ON t.user\_id = u.id  
252 JOIN company c  
253 ON t.company\_id = c.id  
254 JOIN credit\_card cc  
255 ON t.credit\_card\_id = cc.id;

Output

#	Time	Action	Message
1	19:26:04	CREATE VIEW InformeTecnico AS SELECT t.id AS transaction_id, u.name AS cust_name, u.surname AS cust_s...	0 row(s) affected

Ordenamosla por la variable **transaction\_id**.

```
Sprint 3 Andrey Ismagilov  ×  sprint 3 help*  datos introducir sprint3 user  SQL File 6*
```

256  
257 • SELECT \* FROM InformeTecnico  
258 ORDER BY transaction\_id DESC;  
259  
260

Result Grid

transaction_id	cust_name	cust_surname	cust_iban	seller_company
FFFFD31D-9495-47CE-B54A-7DB8E1CC274B	Bmrgli	Tprvnmrc	XX794814451211289182490922	Turpis Company
FFFFCF76D-EFC0-4985-A2D0-B2A7B75998FC	Dfried	Vlqqdjl	XX636251701647892036676034	Amet Nulla Donec Corporation
FFFC9E8D-27C7-4ADE-98F2-7533EF4DF126	Securp	Faofqfy	XX162677143304223631437567	Nunc Interdum Incorporated
FFFBB270D-F53A-4D5D-9666-E5307C53C84	Ggzipa	Uirzjullh	XX395114267082019952567052	Viverra Donec Foundation
FFF9E3CE-234E-408C-A8EF-F9CAD77224A	Yshimq	Zpsjsleed	XX8845462156537570367941	Convallis In Incorporated
FFF9E178-6CD2-4DF9-9980-4AE06880981	Jevepi	Xwicwzwmnm	XX321405515711654384711481	Mus Aenean Eget Foundation
FFF867C9-17B5-4B1F-ADFD-F8023AAA49E	Fqlngd	Lvhfayxi	XX278446342932680979729426	Cras Vehicula Aliquet Industries
FFF7042D-18C6-4DD0-823C-4D90A4AC8F26	Njoraa	Esgscuili	XX405009272572550082027209	Placerat LLP
FFF660D4-4244-47F6-9210-E5D1CB99B0	Lopzaj	Itrgrfay	XX63376659736627454015125	Pede Cum Ltd
FFF5C660-4441-436D-8D27-E6C538618622	Gmnbru	Oxdvhkl	XX237820256172646394016483	At Associates
FFF54F54-8439-41F0-BDD2-F7332DC1ACAD	Gqcfyi	Mpifrltn	XX802723943240147612158718	Enim Condimentum Ltd
FFF42F7D-7A0D-46E2-AF72-5996903F8AA9	Ddkugq	Ycsbpyru	XX926442301555195974199541	At Pede Corp.
FFF42620-1968-4A1F-B9D7-27843CB097A5	Sjbrvp	Einqzdfj	XX395457232638959102336873	Amet Nulla Donec Corporation
FFF290EB-7902-497C-BDCE-2EC63FE3E9AD	Wcfzys	Dkkthgtd	XX45898904822230717519935	Integer Mollis Corp.
FFF20FB4-9014-4AC3-B938-E31E7786C49A	Afjbmt	Yshvmtqk	XX14848355274343737512134	Ac Fermentum Incorporated

InformeTecnico 50 ×

Output

#	Time	Action	Message
1	19:31:49	SELECT * FROM InformeTecnico ORDER BY transaction_id DESC	100000 row(s) returned